GRUNDIG SERVICE MANUAL

Ⓓ Btx ✱ 32700 #

10/86

Satellit 650

SATELLIT
97.90
INTERNATIONAL 650
GRUNDIG
MODE
DIRECT-KEY-INPUT
RECALL
SET
DATE
TIME
FREQ
ON TIME
OFF TIME
STATION
STORE STATION
AUX
LW
MW
SW
FM
LAUTST./VOLUME
BÄSSE/BASS
HÖHEN/TREBLE
BANDWIDTH
AM-RF GAIN CONTROL
MODE LSB AM USB
EXT
BATT

Bei Eingriffen Schutzmaßnahmen für MOS-Bauteile beachten!

1. Allgemeine Hinweise

Alle Spannungseinstellungen erfordern die Verwendung eines entsprechend genauen Instruments (z.B. Grundig DM 14), wobei die angegebenen Spannungen mit ihren Toleranzen mit Sicherheit eingehalten werden müssen.

Das Gerät muß auch nach der Reparatur die Sicherheitsbestimmungen nach VDE 0860 erfüllen. Für SK- und CH-Geräte muß zusätzlich zwischen Netz- und berührbaren Teilen eine Spannungsfestigkeit von 3 kV_{eff} gewährleistet werden.

Damit die FTZ - Vorschriften eingehalten werden, dürfen keine Masseverbindungen geändert werden.

Bei defekter Displaybeleuchtung Digitalplatte ausbauen und die Lampen LA 1 und LA 2 von hinten aus den Fassungen drücken.

2. Ausbauhinweise

Chassis-Ausbau

1. Netzkabel ziehen, Batteriefachdeckel abnehmen und eventuell eingesetzte 9V-Batterien bzw. Dryfit-Accu (nicht Uhrenbatterien) herausnehmen.
2. Abstimm- und Drehknöpfe abziehen und Gerät auf die Abstützbügel legen.
3. Drei Kreuzschlitzschrauben am Gehäuseboden herausdrehen und Rückwand unten anheben und über die obere Kante abheben.
4. Chassis aus dem Gehäusevorderteil nehmen.

Chassis-Einbau

5. Bei der Montage ist darauf zu achten, daß sich die Kippschalter in Mittelstellung befinden, die HF - ZF - Platte richtig in den Führungsleisten liegt, und daß beim Schließen der Rückwand Buchsen und Schalter in die dafür vorgesehenen Durchbrüche finden.

N.B. When carrying out repairs, observe MOS precautions!

1. General Notes

All voltage adjustments have to be made with precisely working instruments (e.g. GRUNDIG DM 14) to ensure that the voltages and their tolerances are in keeping with the specified values.

After repair the set has still to meet the IEC 0860 safety requirements. Additionally, sets for the Scandinavian and Swiss markets have to show an electric strength of 3 kV rms between mains supply and touchable parts.

For reason of FTZ regulations (Telecommunications Head Office) it is not allowed to change the ground connections.

In case of a defective display illumination remove the digital PCB and remove the lamps LA 1 and LA 2 from their sockets by pressing them from the back.

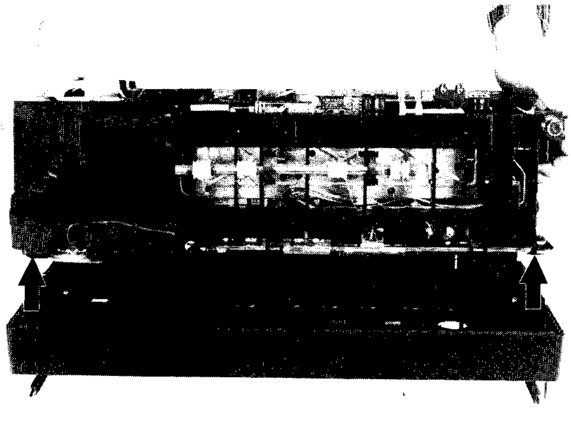
2. Disassembly

Disassembly of Chassis

1. Unplug the mains cable, remove the battery compartment cover and possibly inserted 9 V batteries or dryfit storage battery (not the clock batteries).
2. Pull out the tuning and control knobs and put the set down on its brackets.
3. Loosen the three cross-head screws on the bottom of the set; lift the rear panel and remove it by moving it to the back.
4. Remove the chassis from the front part of the housing

Assembly of chassis

5. When reassembling take care that the toggle switches are in mid-position,that the RF-IF board is correctly positioned in its guides,and that the socket and switches and their respectiv cutouts match when mounting the rear panel.

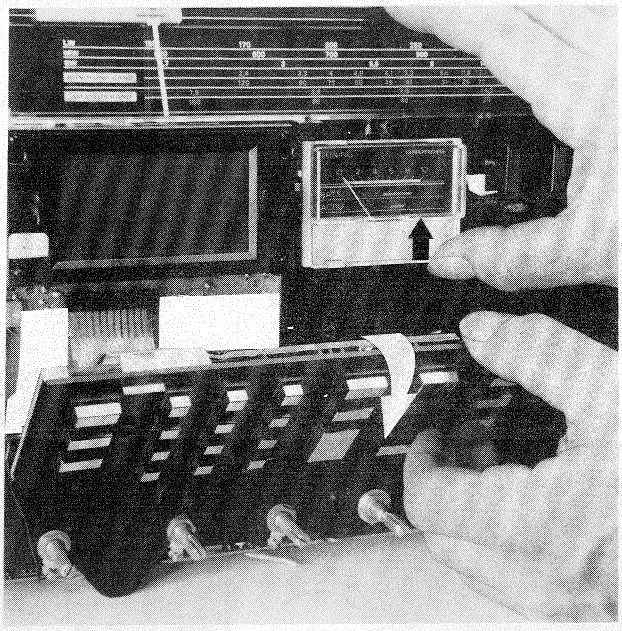


Ausbau der Tastenplatte und des Digitalteiles

1. Rastnase in Pfeilrichtung drücken und Tastenplatte aus der Halterung nehmen

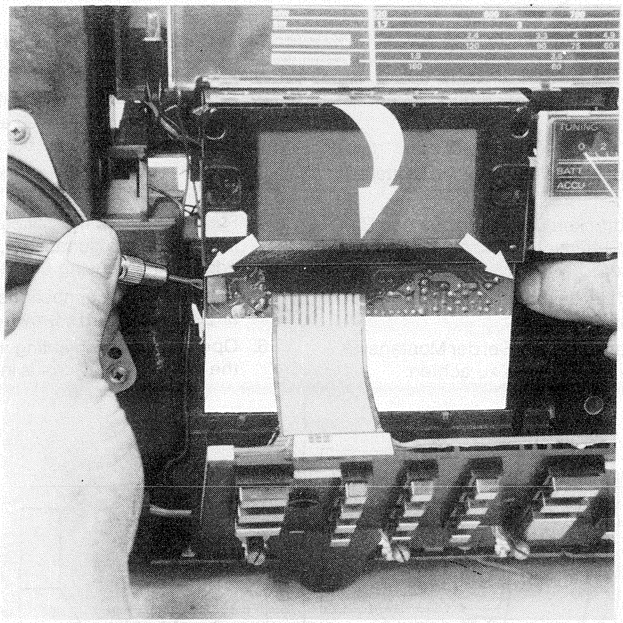
Disassembly of Keyboard Panel and Digital Unit.

1. Push the catch in direction of the arrow and remove the keyboard panel from its mounting.



2. Zwei Rastnasen seitlich aus der Rastung drücken und Digitalteil herausnehmen.

2. Disengage the two catches by pushing them to the left and right, respectively, and remove the digital unit.



Variometer

Beim Wechsel des Variometers ist auf folgendes zu achten:

1. Ausbau der Tastenplatte und des Digitalteiles wie vorher beschrieben.
2. Drehko im eingedrehten Zustand!
3. Steckverbindungen lösen und vier Leitungen ablöten.
4. Zwei Kreuzschlitzschrauben unterhalb des Anzeigeinstrumentes herausdrehen.
5. Seilrad abziehen und festhalten, nicht verdrehen!
   Mit der anderen Hand Variometer herausnehmen und neues einsetzen.
   Es ist darauf zu achten, daß der Variometerschlitten nicht verstellt wird.
   Auf Markierung achten.

SSB - Variometer

Die Grundeinstellung der Feinverstimmung (SSB-clarify) erfolgt so, daß die Zahnstange bei Anschlag der Welle so weit eingeschoben wird, bis diese Kanten fluchten.

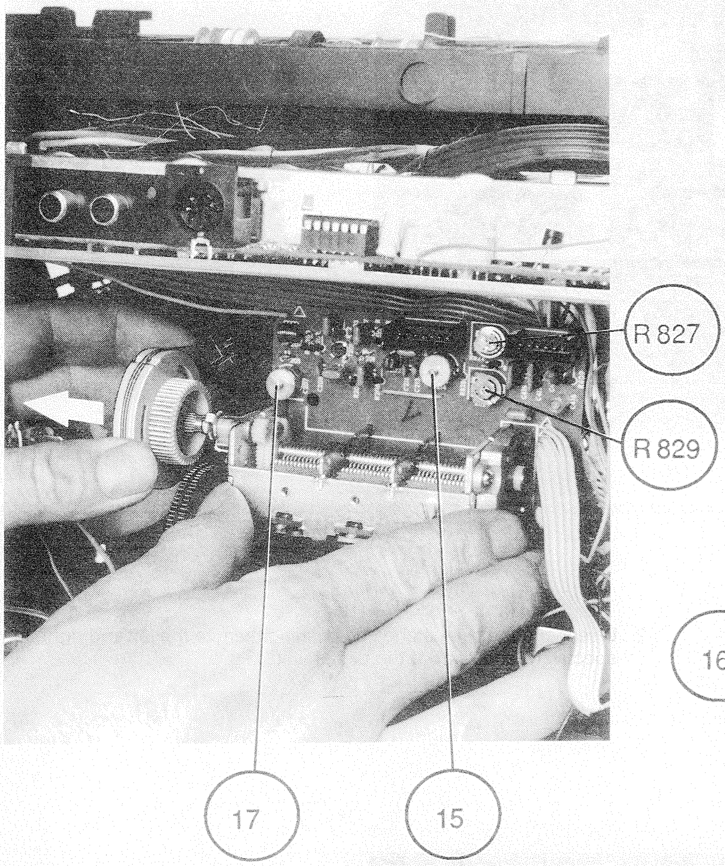
Variometer

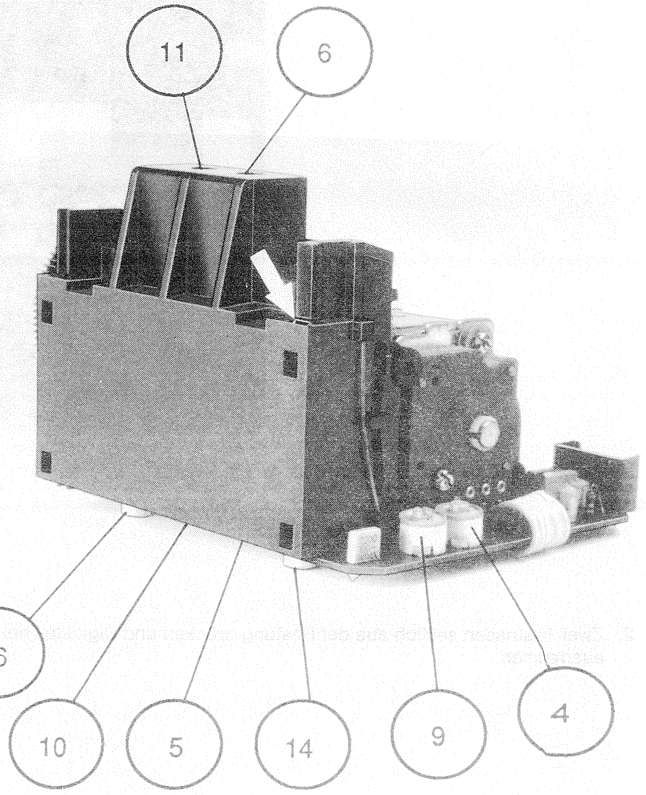
Observe the following instructions when replacing the variometer:

1. Remove the keyboard panel and digital unit as described above.
2. Variable capacitor is turned in!
3. Unplug the connectors and unsolder four lines.
4. Loosen the two cross-head screws below the indicating instrument.
5. Remove and hold the cord pulley but do not turn it!
   With the other hand take out the variometer and replace it by a new one.
   Take care not to change the position of the variometer carriage.
   Note the marker!

SSB - Variometer

The bandwidth selector switch has to be set to "narrow" for the total AM adjusting procedure.



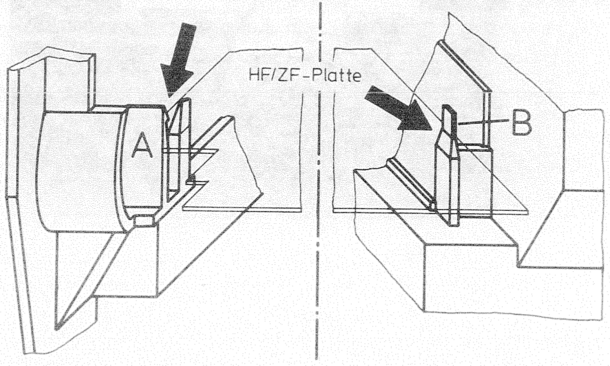


Ausbau der HF-/ZF-Platte

1. Teleskopantenne ausziehen und Leitung ablöten.
2. Skala und Blende entfernen, Leitungen für Instrument- und Skalenbeleuchtung sowie Variometer ablöten.
   Peilantennenplatte herausziehen.
3. Sechs Steckverbindungen lösen und Masseleitung vom Digitalteil (STV803) ablöten.
4. Halterung **A** der HF-/ZF-Platte zurückdrücken und Platte aus den Rastebenen **A** ziehen. HF-/ZF-Platte zur Gehäuse-Oberkante kippen bis die Platte aus den Fixiernasen **B** gleitet.
5. Acht Anschlüsse zur Ferritantenne und vier Leitungen (gelb an 20A, rot an 20B, braun an 32B und grün an 32E) ablöten.
6. Obere Abschirmung öffnen und Bowdenzug lösen. Bei der Montage ist auf die richtige Stellung des Bandbreitenschalters zu achten.

Disassembly of RF/IF Board

1. Draw out the telescopic antenna and unsolder the line.
2. Remove the scale and the mask, unsolder the lines for instrument and scale illumination as well as the variometer.
   Take out the DF frame board.
3. Loosen six plug-type connections and unsolder the ground line from the digital unit (STV803).
4. Push back holding device **A** from the RF/IF board and remove the board from the surfaces **A**. Move the RF/IF board towards the upper edge of the housing until the board slips from the locating lugs **B**.
5. Unsolder eight connections to the ferrite antenna and four lines (yellow at 20A, red at 20B, brown at 32A and green at 32E).
6. Open the upper shielding and loosen the Bowden wire. Take care that the bandwidth selector is in correct position when mounting the board.



Montage und Schmiervorschrift

Folgende Teile müssen mit Shell Voltol 22 5-10 Vol %Zusatz VM geschmiert werden:

1. AM-Variometer: Alle Lagerstellen und Zahnräder einschließlich Zahnstange des Variometers.
2. Montagerahmen: Die Lagerstellen für Geberrad, Schaltlager, Schaltwelle, Seilrolle und Riemenscheibe (Motor).
3. Die Gleitflächen der Zeigerführung

Das Schmiermittel Shell Voltol 22 ist im Schmiermittelsatz (Sach-Nr. 72003-741.00) enthalten und mit " ▼ " gekennzeichnet.

Mounting and Lubricating Instructions

The following parts have to be lubricated with Shell Voltol 22 5-10 percent by volume VM addition:

1. AM variometer: All bearings and gearwheels including toothed rack of the variometer.
2. Mounting frame: All bearings for the master wheel, switch bearing, switch shaft, cord pulley and pulley (motor).
3. Slide surfaces of the pointer guide.

The Shell Voltol 22 lubricant is included in the set of lubricants (Part No. 72003-741.00) and is marked with ▼

Bei Austausch der Digital - und der Variometerplatte muß der A/D - Wert neu eingestellt werden.

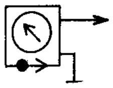
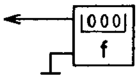
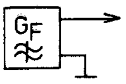
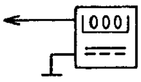
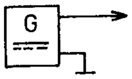
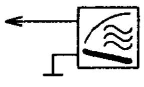
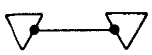
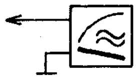
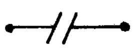
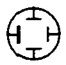
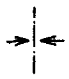
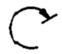
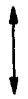
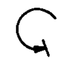
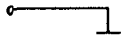
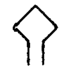
On replacement of the digital board or the variometer board the A/D value has to be adjusted again.

Die Uhrenfrequenz ist werkseitig auf 32768 Hz ±0,1 Hz eingestellt (mit C 857).

The clock frequency is preset at the factory to 32768 Hz ± 0.1 Hz (by means of C 857).

Bei Austausch von IC 901 muß die Ladespannung kontrolliert werden. Dazu einen 1 kΩ-Widerstand und einen 1000 µF Elko parallel an Ladekontakt und Minus anschließen. Die Ladespannung muß zwischen 9,05 V und 9,25 V liegen. Gegebenfalls R 904 oder R 905 zuschalten.

Check the charging voltage when replacing IC 901. For this purpose, connect a 1 kOhm resistor and a 1000 µF electrolytic capacitor in parallel to the charging contact and the negative terminal. The charging voltage must be within a range of 9.05 V and 9.25 V. If necessary, connect R 904 or R 905.

ZEICHENERKLÄRUNG		LEGENDE	
	Meßsender Testgenerator	Frequenzzähler frequency counter	
	Wobbelgenerator Sweep generator	Digitalvoltmeter Digital voltage meter	
	Gleichspannungsgenerator DC-Generator	HF-Voltmeter RF-Voltmeter	
	Kurzschließen short circuit	NF-Voltmeter AF-Voltmeter	
	Unterbrechung disconnection	Oszilloskop Oscilloscop	
	Mittelstellung middle position	Drehen nach rechts Tuning to right	
	Einstellung wiederholen To repeat the adjustment	Drehen nach links Tuning to left	
	An Masse legen contact to chassis	Rahmenantenne Frame aerial	

Abgleichtabelle

Während des kompletten AM - Abgleichs muß der Bandbreitenschalter in Stellung "schmal" stehen.

Reihenfolge der Abgleichpunkte für Komplettabgleich

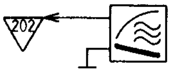
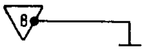
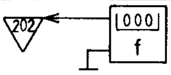
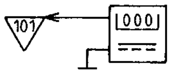
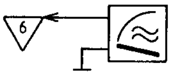
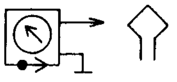
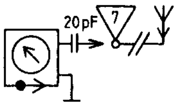
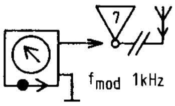
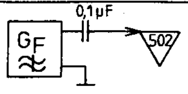
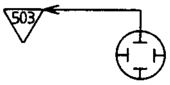
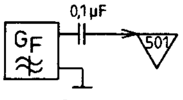
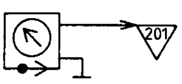
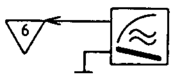
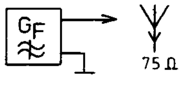
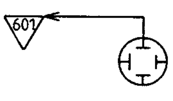
Alignmenttable

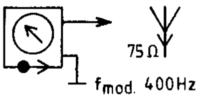
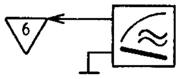
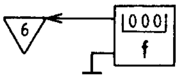
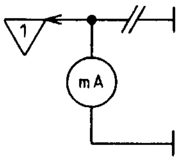
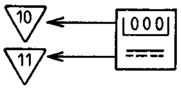
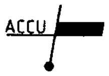
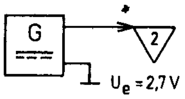
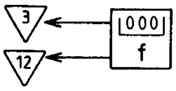
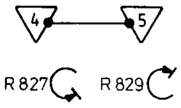
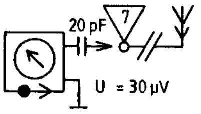
The bandwidth selector switch has to be set to "narrow" for the total AM adjusting procedure.

Sequence of alignment points for complete adjustment.

AM: R 507,I,II,III,IV,V,VI,VII,VIII,IX,X,R 258,R 827,R 829,2,4,7,5,8,6,9,12,10,13,11,15,17,14,16,R 521,R 513, 19,20.

FM: A,B,L,I,C,E,G,D,F,H,R 359.

Abgleich Alignment	Einspeisung Feeding	Meßpunkt Testpoint	Hinweis Notes	Bereich Band	f	Abgleichpunkt Alignment-point	Einstellung Adjustment
Oszillator oscillator				LW		L 209 (VI)	max.
						C 278 (VII)	54,05 MHz ± 100 Hz
			äußeres Max. exterior max.		148 KHz	L 205 ②	1,5 V ± 0,05 V
			äußeres Max. exterior max.	FM	87,5 MHz	L 305 Ⓐ	2,1 V ± 0,1 V
					108 MHz	C 318 Ⓑ	25 V ± 1 V
Vor- und Zwischenkreis Aerial-band-pass. cct.			Ant.Presel. ein/on * A/D Wert mit Handrad korrigieren/ correct A/D-Position with manual tuning				
	 fmod. = 400 Hz / 30%		A/D = 19	LW	160 KHz	C 417 ④ L 404 ⑦	max.
			A/D = 199		370 KHz	L 407 ⑤ C 405 ⑧	
			A/D = 106		240 KHz	L 407 ⑥	
			A/D = 23	MW	560 KHz	C 414 ⑨ L 402 ⑫	max.
			A/D = 212		1450 KHz	L 406 ⑩ C 403 ⑬	
			A/D = 134		990 KHz	L 406 ⑪	
	 fmod = 400 Hz / 30%		A/D = 189	SW	23,05 MHz	C 214 ⑮ C 207 ⑰	max.
			A/D = 19		2,05 MHz	L 203 ⑭ L 202 ⑯	
	 fmod 1kHz Hub/deviation 22,5 kHz (20 dB-Kabel, 60/150 Ω) (20 dB-cabel, 60/150 Ω)			FM	88 MHz	L 304 Ⓒ L 303 Ⓔ L 302 Ⓖ	max.
					106 MHz	C 313 Ⓓ C 307 Ⓘ C 303 Ⓗ	
ZF / IF	 fe = 450 kHz			SW		F 506 (I) F 505 (II) F 504 (III)	max.
	 fe = 450 kHz		nur in Verbindung mit/only with F 502/ 19203-105.95			F 503 (IV)	sym.
						F 501 (V)	max. + sym.
	 fe = 54,5 MHz		R 258 ↻			F 201 (IX) F 202 (VIII)	max.
					2,05 MHz	R 258 (X)	min.
			verstimmen F 305 Ⓕ detune	FM	88 MHz	F 301 Ⓛ	max. + sym.
			inneres Max. interior max.			F 305 Ⓘ	

Abgleich Alignment	Einspeisung Feeding	Meßpunkt Testpoint	Hinweis Notes	Bereich Band	f	Abgleichpunkt Alignment-point	Einstellung Adjustment
SSB-Teil SSB-unit			Mode: " AM " C 716 ⑳ SSB-Variometer →|←	SW	22,2 MHz	Tuning	max.
	unmod.		Mode: " USB "			F 703 ⑲	Schwebungsnull beat zero
	f_e = 22,2 MHz		**		21,199 MHz	C 716 ⑳	1 KHz ± 100 Hz
Arbeitspunkte workpoints	U_{Batt} = 9 V		NF-Ausgang mit 4Ω belasten Load AF-Output with 4Ω R 649 ↺	SW		R 676	10 mA ± 1 mA
						R 507	1,0V-1,1V
	U_{Batt} = 7,2 V		Schalter 5,6: switch 5,6: " Batt. "			R 918	
Speicherspannungskontrolle stand by voltage control			Entsprechende Brücke 1,2,3 verbinden corresponding shortcircuit 1,2,3			R 862	Display " Batt. "
	U_e = 2,75 V						Display " Time "
4 MHz - Oscillator						C 814	4 MHz ± 100 Hz
A/D Wandler A/D Transformer				MW			
			Handabstimmung Tuning ↻			R 827	Display-wechsel/ change 254 → 255
			Handabstimmung Tuning ↺			R 829	Display-wechsel/ change 1→0
instrument				SW	22,2 MHz	R 521	Marke 3 mark 3 ↕
	U_e = 100 mV					R 513	Marke 9 mark 9
	U_e ≧ 1 mV			FM	88 MHz	R 359	Marke 9 mark 9

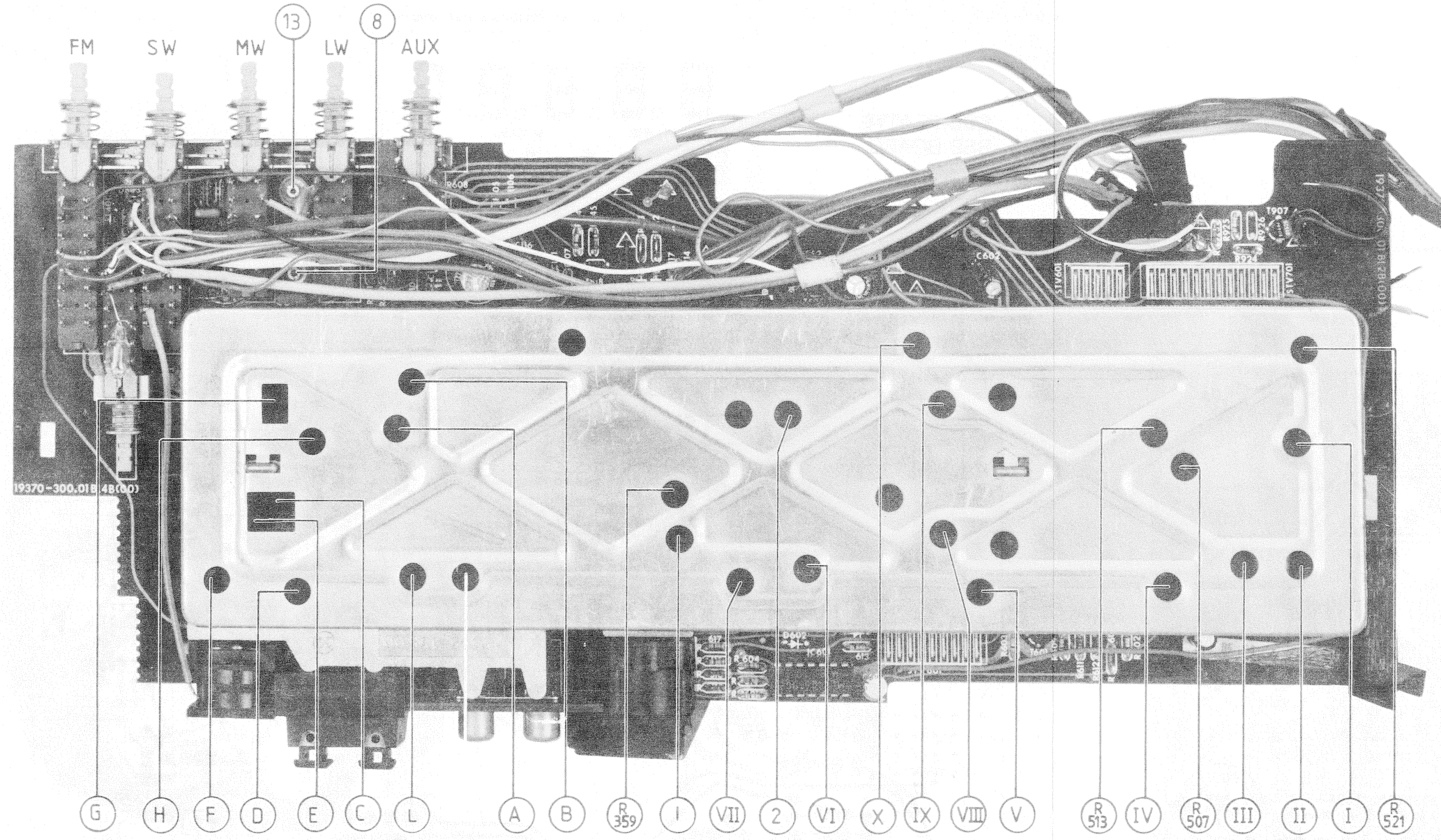
---

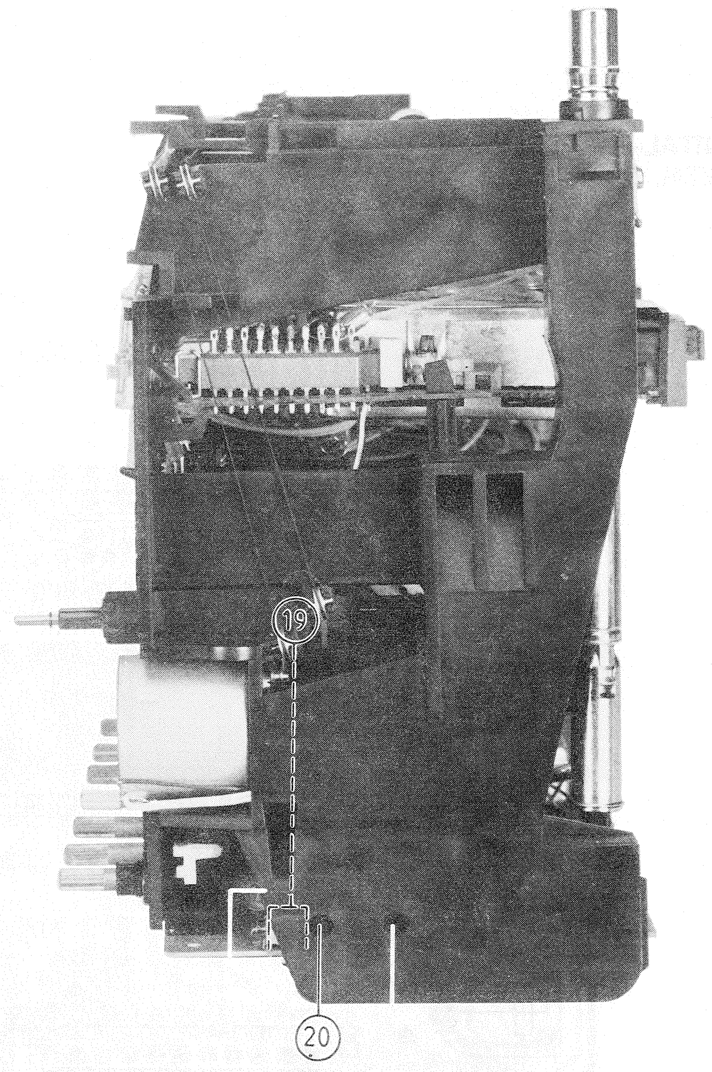
* Der A/D-Wert wird nach Eingabe der Frequenz und Kurzschließen der Meßpunkte 4 und 5 im Display angezeigt.

* On entering the frequency and short-circuiting the test points 4 and 5 the A/D value is shown on the display.

** Bei ungerasteten Meßsender kann ein bekannter Ortssender verwendet werden. Gerät mit Handabstimmung um 1 kHz verstimmen.

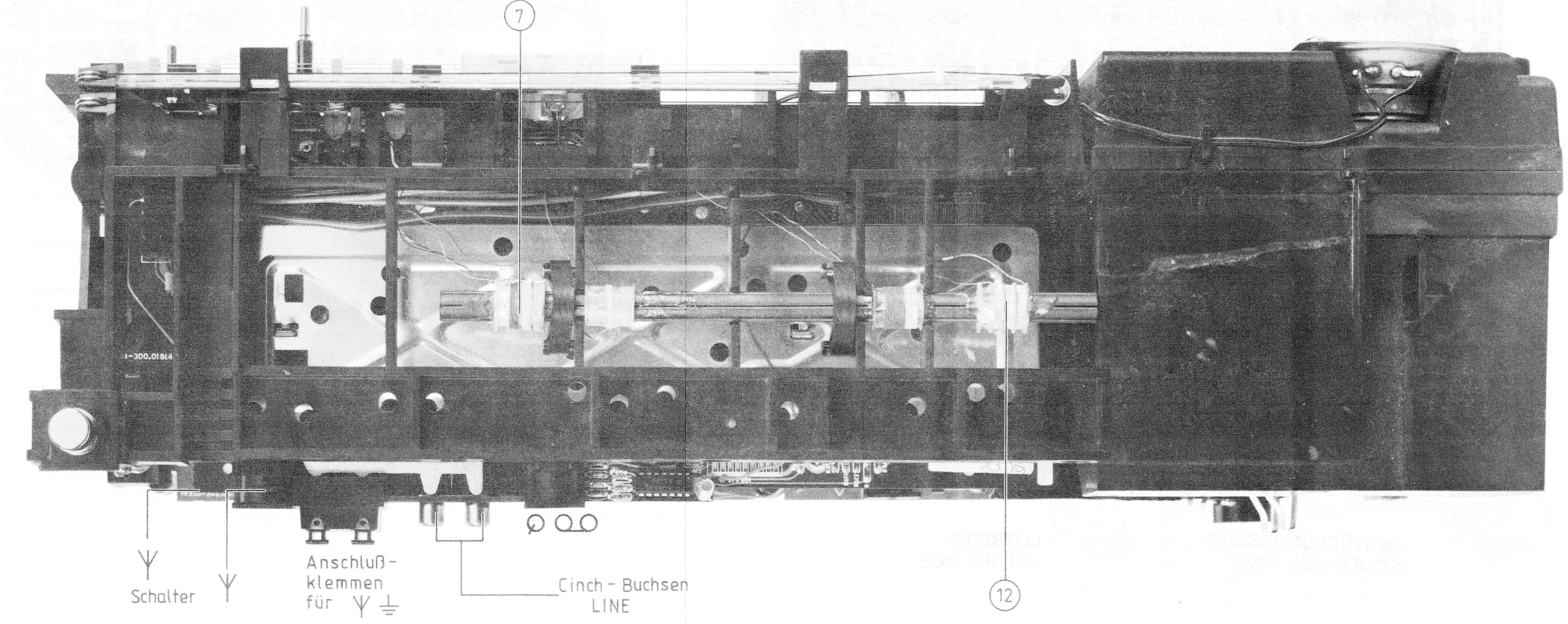
* * Instead of a drifting analog test signal generator (no synthesizer) a known local station can be used. Detune the receiver manually by 1 kHz.


FM
SW
MW
LW
AUX
13
8
19370-300.01B 4B(00)
G
H
F
D
E
C
L
A
B
R 359
I
VII
2
VI
X
IX
VIII
V
R 513
IV
R 507
III
II
I
R 521

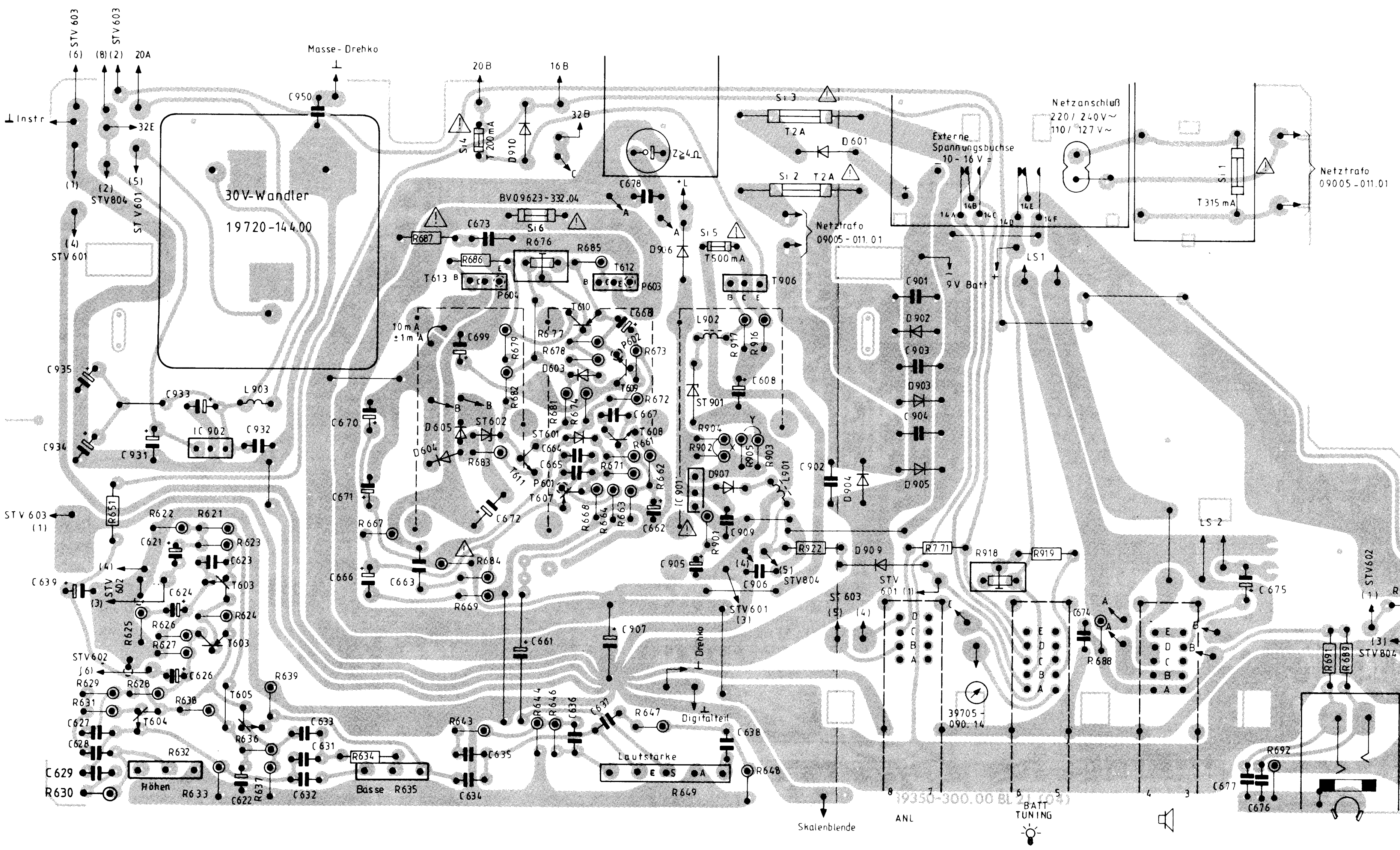


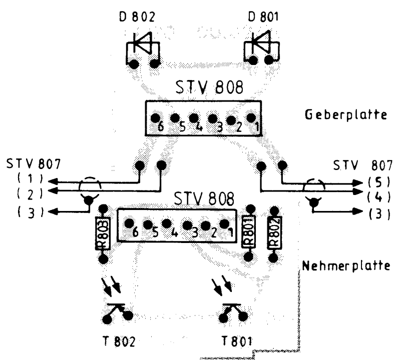
ABGLEICH-LAGEPLAN
ALIGNMENT SCHEME

Variometerplatte Seite 4
Variometer Board page 4


7
Schalter
Anschluß-klemmen für
Cinch-Buchsen LINE
12

NF-PLATTE
AF BOARD

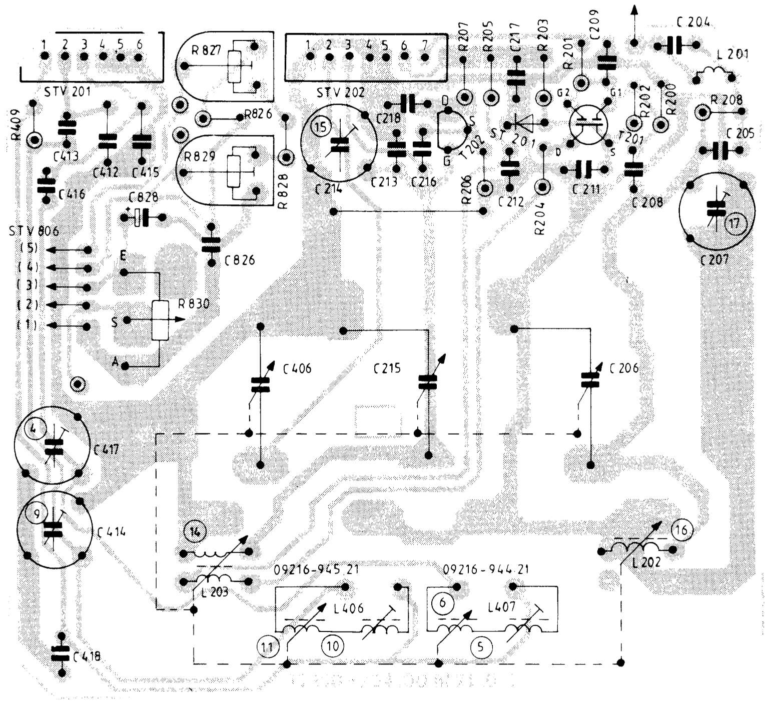

STV 603
STV 604
STV 601
30V-Wandler
19720-144.00
Masse-Drehko
C950
BV09623-332.04
Si 6
Si 4
T200mA
D910
Si 3
T2A
D601
Si 2
Si 5
T500mA
Externe Spannungsbuchse 10-16 V =
Netzanschluß 220/240V~ 110/127V~
T 315 mA
Netztrafo 09005-011.01
9V Batt
LS 1
LS 2
ST 901
IC 902
L 903
Höhen R633
Basse R635
Lautstärke R649
Digitalteil
Drehko
Skalenblende
ANL
BATT TUNING
39705-090.14
STV 602
STV 804
T 901
T 902
STV 603


D 802
D 801
STV 808
Geberplatte
STV 807
(1)
(2)
(3)
(5)
(4)
(3)
STV 808
R803
R801
R802
Nehmerplatte
T 802
T 801

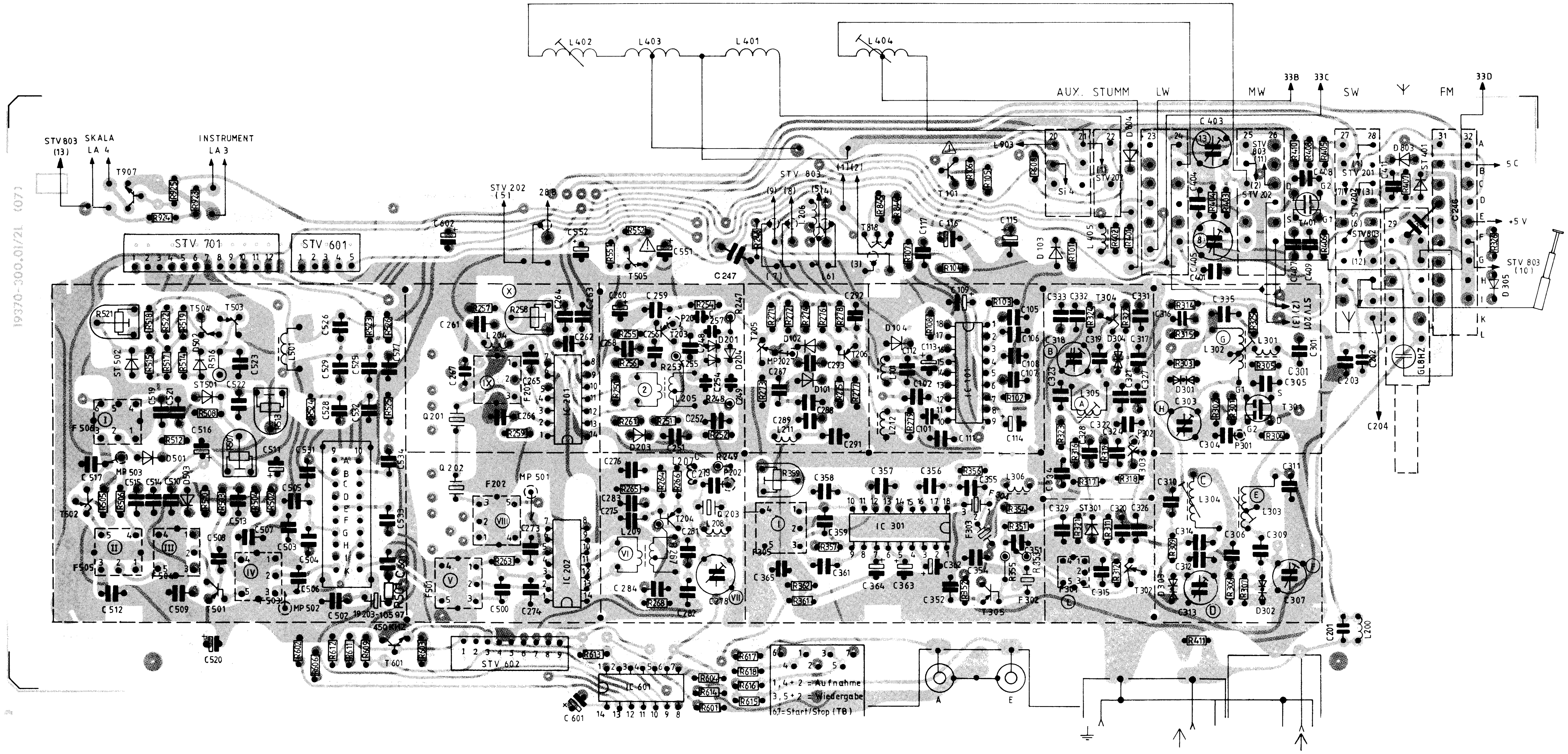
GEBERPLATTE
TRANSMITTER BOARD

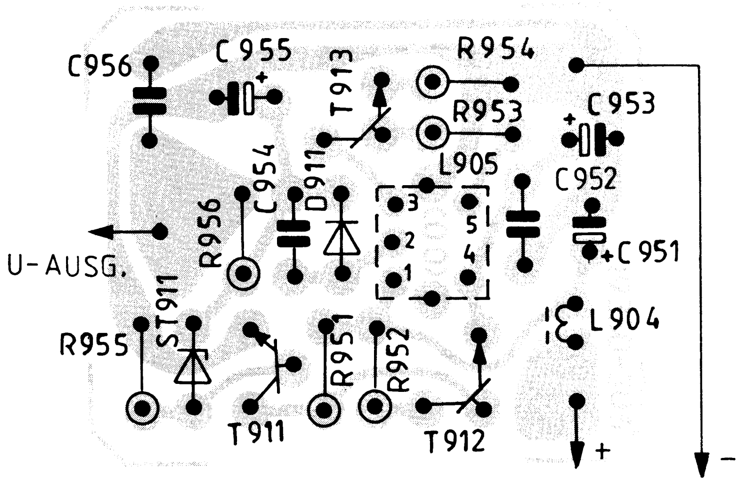
NEHMERPLATTE
RECEIVER BOARD

VARIOMETER-PLATTE
VARIOMETER BOARD


STV 201
STV 202
R827
R826
R829
R828
R830
C828
C826
C406
C215
C206
C417
C414
C418
L 203
L 202
09216-945.21
09216-944.21
L406
L407
STV 806
T 201
T 202
C 207
C 205
C 204
L 201
29K

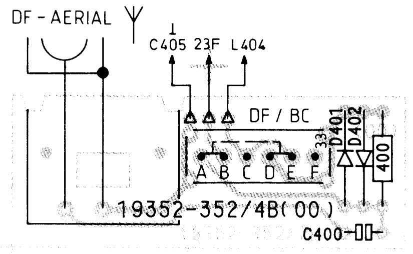
HF-ZF-Platte
RF-IF BOARD


L402
L403
L401
L404
AUX. STUMM
LW
MW
SW
FM
33B
33C
33D
STV803 (13)
SKALA LA 4
INSTRUMENT LA 3
T907
STV 202 (5)
STV 803
STV 701
STV 601
STV 602
STV 201
STV 803 (10)
IC 101
IC 201
IC 202
IC 301
IC 601
+5 V
5 C
1, 4 + 2 = Aufnahme
3, 5 + 2 = Wiedergabe
6,7 = Start/Stop (TB)
19370-300.01/2L (07)
19203-105 97
450KHZ
10,7 MHZ
A
E

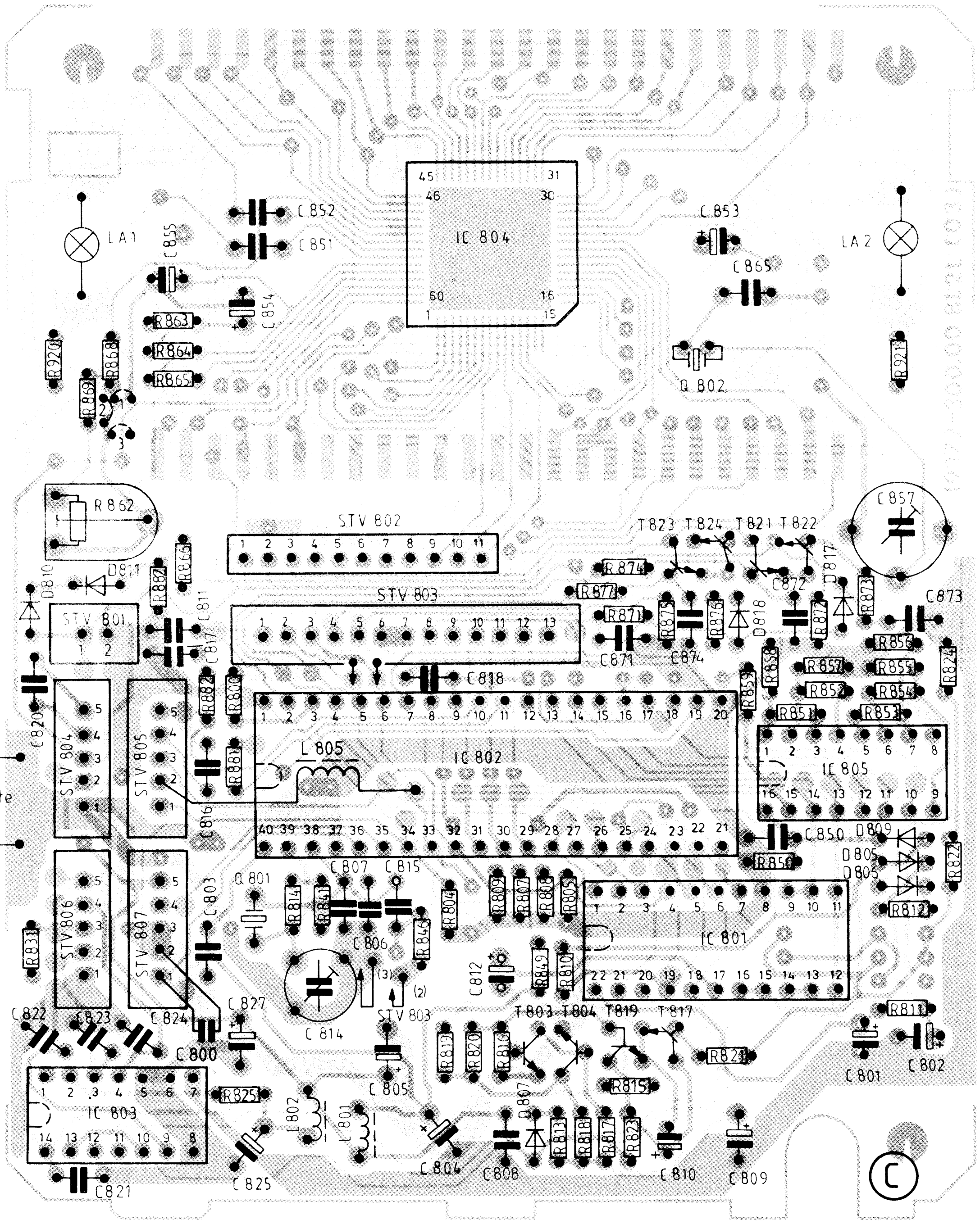

C956
C955
T913
R954
R953
C953
C954
D911
L905
C952
R956
C951
U-AUSG.
R955
ST911
R951
R952
L904
T911
T912
+
-
U-EING.

30 V WANDLER-PLATTE
30 V TRANSFOREMER BOARD

PEILANTENNENPLATTE
DF-AERIAL BOARD


DF - AERIAL
C405
23F
L404
DF / BC
D401
D402
400
A B C D E F
19352-352/4B(00)
C400

DIGITAL-PLATTE
DIGITAL BOARD

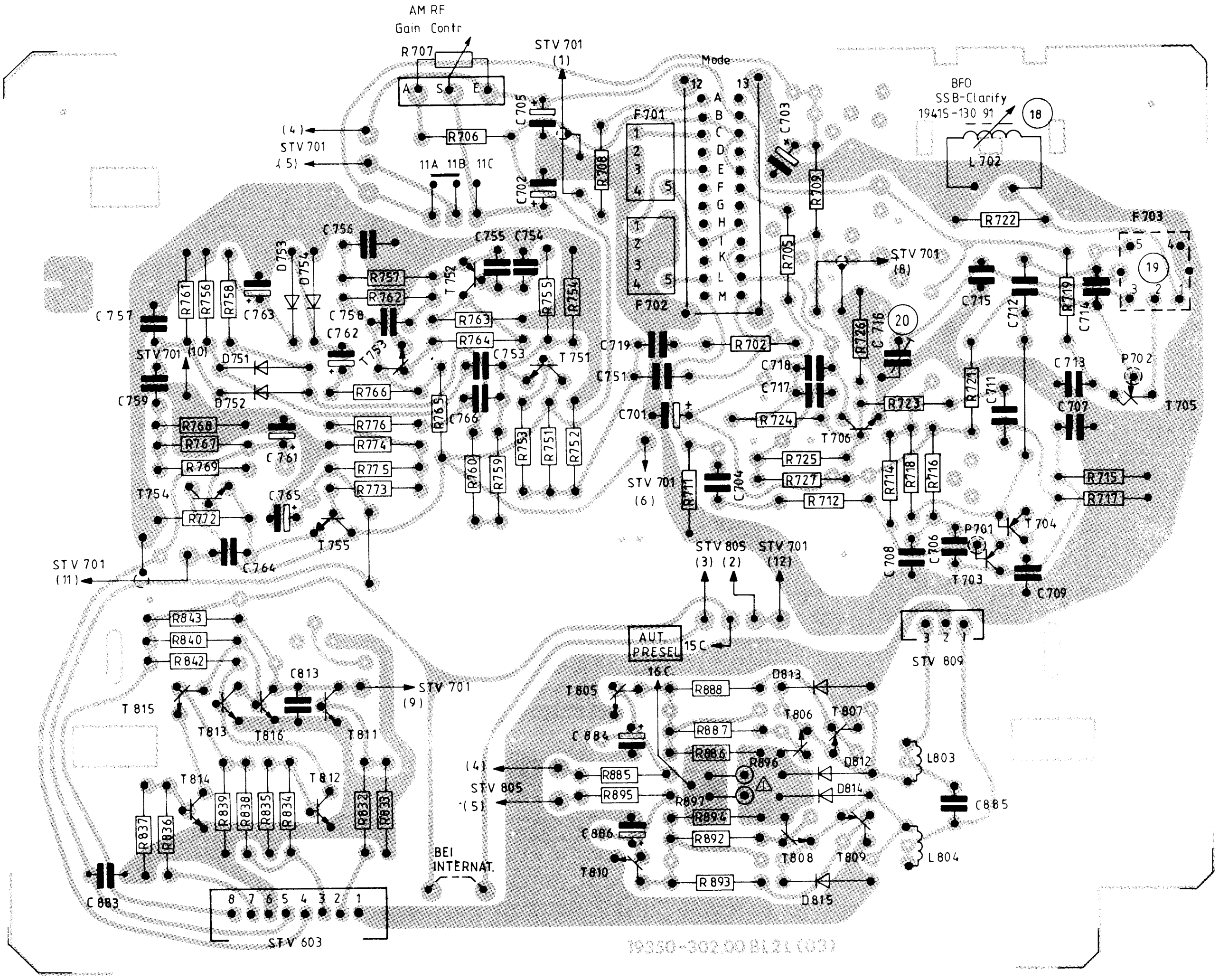


IC 804
45
31
46
30
60
16
1
15
C 852
C 851
C 853
C 865
C 855
C 854
LA 1
LA 2
R 863
R 864
R 865
R 920
R 868
R 869
R 921
Q 802
R 862
STV 802
STV 803
STV 801
STV 804
STV 805
STV 806
STV 807
D 810
D 811
R 882
R 866
C 811
C 817
C 820
R 880
R 881
C 816
C 818
IC 802
L 805
IC 805
IC 801
IC 803
T 823
T 824
T 821
T 822
C 857
R 874
R 877
R 871
R 875
R 876
D 818
D 817
C 872
R 872
R 873
C 873
C 871
C 874
R 858
R 859
R 857
R 852
R 851
R 856
R 855
R 854
R 853
R 824
C 850
R 850
D 809
D 805
D 806
R 822
R 812
Q 801
C 807
C 815
R 814
R 841
R 843
C 806
C 814
R 804
R 809
R 807
R 808
R 805
R 842
R 810
C 812
C 803
STV 803
T 803
T 804
T 819
T 817
R 811
C 801
C 802
R 821
R 815
R 819
R 820
R 816
D 807
R 813
R 818
R 817
R 823
C 822
C 823
C 824
C 800
C 827
C 805
R 825
L 802
L 801
C 825
C 804
C 808
C 810
C 809
C 821
R 831
Tastenplatte
C 907

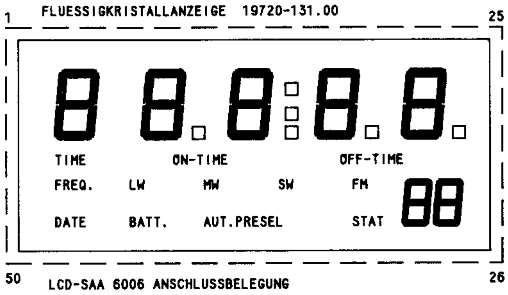
BESTÜCKUNGSSEITE
COMPONENT SIDE

▨ **LÖTSEITE**
SOLDER SIDE

SSB-PLATTE
SSB BOARD

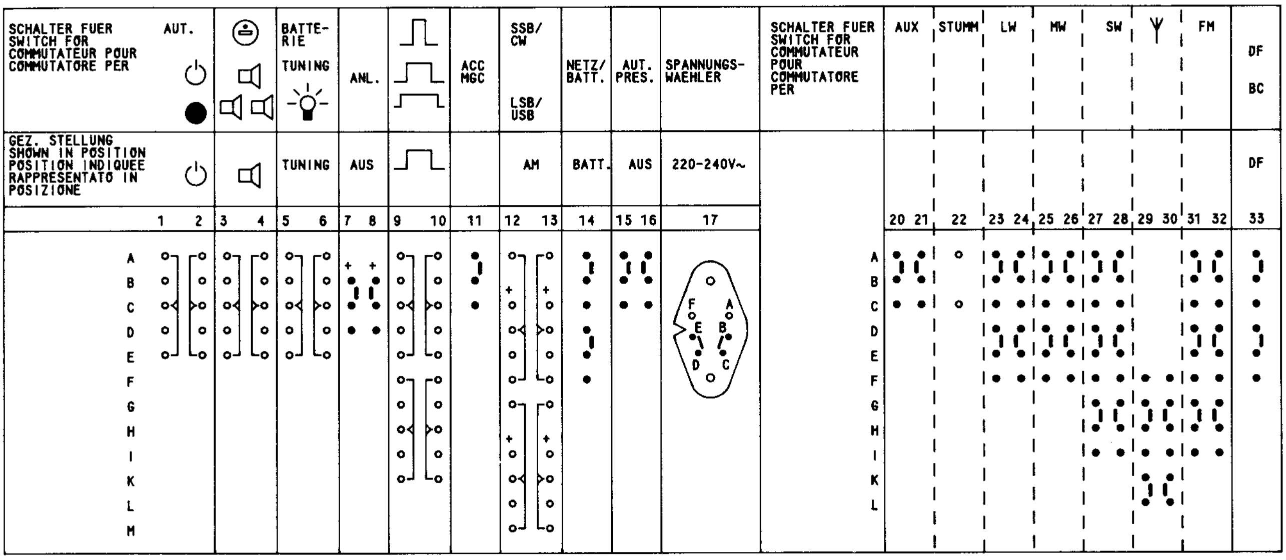

AM RF
Gain Contr
R707
A S E
STV 701
(1)
Mode
12
13
A
B
C
D
E
F
G
H
I
K
L
M
(4)
STV 701
(5)
R706
C705
C702
11A 11B 11C
R708
F701
1
2
3
4
5
F702
C703
R709
BFO
SSB-Clarify
19415-130 91
18
L702
R722
F703
5
4
19
3
2
1
R705
STV 701
(8)
C715
C712
R719
C714
C756
C755 C754
D753
D754
R757
R762
T752
R755
R754
R761
R756
R758
C763
C757
C758
C762
T753
R763
R764
C753
T751
STV 701 (10)
D751
D752
C759
R766
R765
C766
R768
R767
C761
R776
R774
R769
R775
R773
R760
R759
R753
R751
R752
T754
R772
C765
T755
C764
STV 701
(11)
C719
R702
C751
C718
C717
C701
R724
T706
R723
R726
C716
20
R721
C711
C713
C707
P702
T705
STV 701
(6)
R711
C704
R725
R727
R712
R714
R718
R716
R715
R717
STV 805 STV 701
(3) (2) (12)
C708
C706
P701
T704
T703
C709
3 2 1
STV 809
AUT.
PRESEL
15C
16C
R843
R840
R842
C813
STV 701
(9)
T815
T813
T816
T811
T805
R888
D813
T806
T807
C884
R887
R886
R896
D812
L803
(4)
STV 805
(5)
R885
R895
R897
D814
C885
R894
C886
R892
T808
T809
L804
T810
R893
D815
T814
T812
R837
R836
R839
R838
R835
R834
R832
R833
BEI
INTERNAT.
C883
8 7 6 5 4 3 2 1
STV 603
19350-302.00 BL2L(03)

FLUESSIGKRISTALLANZEIGE 19720-131.00


1
25
TIME
ON-TIME
OFF-TIME
FREQ.
LW
MW
SW
FM
DATE
BATT.
AUT.PRESEL
STAT
50
26

LCD-SAA 6006 ANSCHLUSSBELEGUNG

LCD-PIN-NR. IC804-PIN-NR. IC804-PIN-BEZ.	1/25 53 H2	2 51 048	3 50 038	4 49 028	5/14 48 018	6 47 047	7 46 037	8 45 027	9 44 017	10 43 046	11 42 036	12 41 026	13 40 016	15 39 045	16 37 035	17 36 025	18 35 015	19 34 044
LCD-PIN-NR. IC804-PIN-NR. IC804-PIN-BEZ.	20 33 034	21 32 024	22 31 014	23 29 033	24 25 032	27 24 022	28 23 012	29 26 042	30 28 023	31 27 013	32 30 043	33 22 041	35 21 031	36 20 021	45 19 011	47 18 0S1	49 17 0S2	50/26 54 H1


SCHALTER FUER
SWITCH FOR
COMMUTATEUR POUR
COMMUTATORE PER
AUT.
BATTE-RIE
TUNING
ANL.
ACC
MGC
SSB/
CW
LSB/
USB
NETZ/
BATT.
AUT.
PRES.
SPANNUNGS-
WAEHLER
GEZ. STELLUNG
SHOWN IN POSITION
POSITION INDIQUEE
RAPPRESENTATO IN
POSIZIONE
TUNING
AUS
AM
BATT.
AUS
220-240V~
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
A
B
C
D
E
F
G
H
I
K
L
M
+
F
A
E
B
D
C
SCHALTER FUER
SWITCH FOR
COMMUTATEUR
POUR
COMMUTATORE
PER
AUX
STUMM
LW
MW
SW
FM
DF
BC
DF
20
21
22
23
24
25
26
27
28
29
30
31
32
33

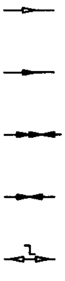
SCHALTRICHTUNG FUER AUX, LW, MW, SW, FM
SWITCHING DIRECTION FOR AUX, LW, MW, SW, FM
DIRECTION DE COMMUTATION POUR AUX, LW, MW, SW, FM
DIREZIONE DI COMMUTAZIONE PER AUX, LW, MW, SW, FM

FUER
FOR
POUR
PER

GEZ. STELLUNG: TASTEN IN RUHESTELLUNG
SHOWN IN POSITION: BUTTONS IN REST POSITION
POSITION INDIQUEE: TOUCHES EN POSITION REPOS
RAPPRESENTATO IN POSIZIONE: TASTI IN POSIZIONE DI RIPOSO

STECKVERBINDUNG STV	VON	NACH
201 (1-6) 202 (1-7)	HF-ZF-PLATTE	AM-VARIOMETER
601 (1-5) 602 (1-9) 603 (1-8)	NF-PLATTE	HF-ZF-PLATTE SSB-PLATTE
701 (1-12)	SSB-PLATTE	HF-ZF-PLATTE
801 (1-2)	3V-BATTERIE	DIGITALTEIL
802 (1-11)	KONTAKTFELD	
803 (1-13)	HF-ZF-PLATTE	
804 (1-5) ROT	NF-PLATTE	
805 (1-5) GRUEN	SSB-PLATTE	
806 (1-5) SCHWARZ	AM-VARIOMETER	
807 (1-5) BLAU 808 (1-6)	GEBERPLATTE	NEHMERPLATTE
809 (1-3)	MOTOR	SSB-PLATTE

SW-	SCHWARZ	BLACK	NOIR	NERO
BN-	BRAUN	BROWN	BRUN	MARRONE
RT-	ROT	RED	ROUGE	ROSSO
GE-	GELB	YELLOW	JAUNE	GIALLO
GN-	GRUEN	GREEN	VERT	VERDE
BL-	BLAU	BLUE	BLEU	BLU
VI-	VIOLETT	VIOLET	VIOLET	VIOLETTO
GR-	GRAU	GREY	GRIS	GRIGIO
WS-	WEISS	WHITE	BLANC	BIANCO
RS-	ROSA	PINK	ROSE	ROSA
OR-	ORANGE	ORANGE		ARANCIONE
TR-	TRANSPARENT	TRANSPARENT	TRANSPARENT	TRASPARENTE



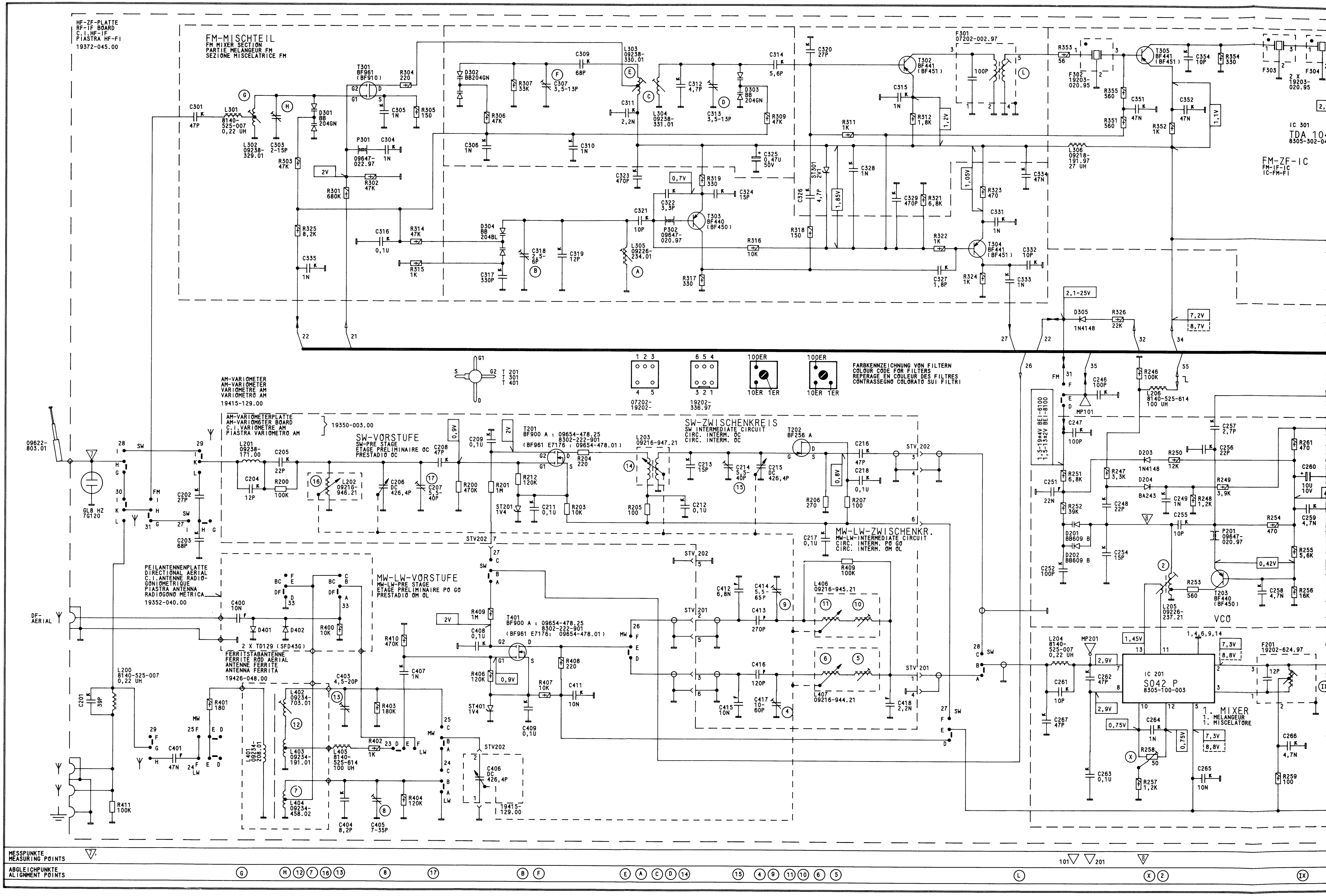
GLEICHSPANNUNG
DC-VOLTAGE
TENSION CONTINUE
TENSION CONTINUA

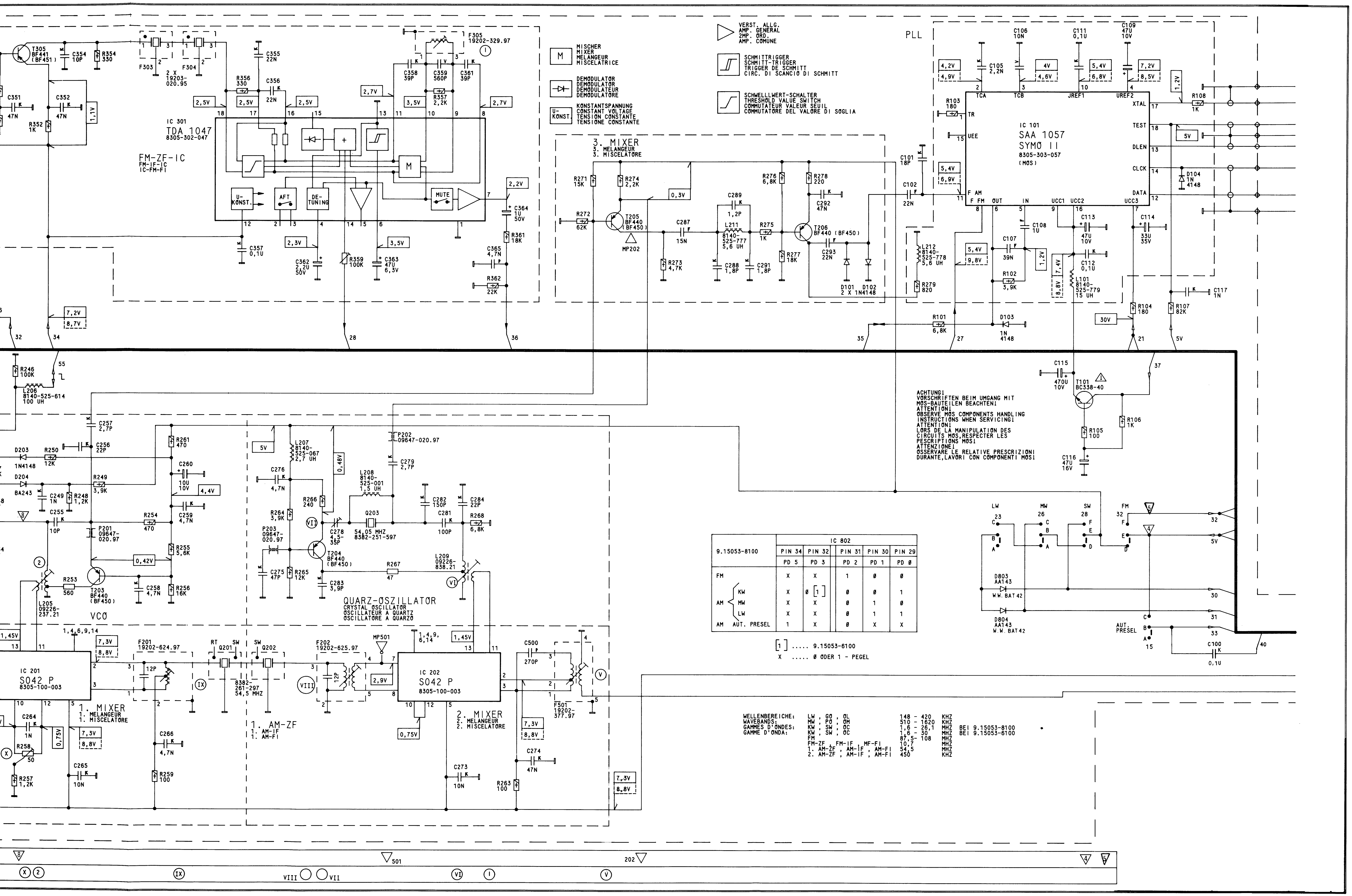
WECHSELSPANNUNG
AC-VOLTAGE
TENSION ALTERNATIVE
TENSIONE ALTERNATA

REGELSPANNUNG
CONTROL VOLTAGE
TENSION DE REGLAGE
TENSIONE DI CONTROLLO

ABSTIMMSPANNUNG
TUNING VOLTAGE
TENSION DE SYNTONISATION
TENSIONE DI SINTONIA

SCHALTSPANNUNG
SWITCHING VOLTAGE
TENSION DE COMMUTATION
TENSIONE DI COMMUTAZIONE


HF-ZF-PLATTE
RF-IF BOARD
C.I.HF-IF
PIASTRA HF-FI
19372-045.00
FM-MISCHTEIL
FM MIXER SECTION
PARTIE MELANGEUR FM
SEZIONE MISCELATRICE FM
T301 BF961 (BF910)
T302 BF441 (BF451)
T303 BF440 (BF450)
T304 BF441 (BF451)
T305 BF441 (BF451)
F301 07202-002.97
F302 19203-020.95
F303
F304
2 X 19203-020.95
IC 301
TDA 10
8305-302-0
FM-ZF-IC
FM-IF-IC
IC-FM-FI
L306 09218-191.97 27 UH
D305 1N4148
2,1-25V
7,2V
8,7V
AM-VARIOMETER
AM-VARIOMETER
VARIOMETRE AM
VARIOMETRO AM
19415-129.00
AM-VARIOMETERPLATTE
AM-VARIOMETER BOARD
C.I.VARIOMETRE AM
PIASTRA VARIOMETRO AM
19350-003.00
T 201
T 301
T 401
07202-
19202-
19202-
336.97
100ER
10ER 1ER
FARBKENNZEICHNUNG VON FILTERN
COLOUR CODE FOR FILTERS
REPERAGE EN COULEUR DES FILTRES
CONTRASSEGNO COLORATO SUI FILTRI
SW-VORSTUFE
SW-PRE STAGE
ETAGE PRELIMINAIRE OC
PRESTADIO OC
SW-ZWISCHENKREIS
SW INTERMEDIATE CIRCUIT
CIRC. INTERM. OC
CIRC. INTERM. OC
T201 BF900 A : 09654-478.25
8302-222-901
(BF961 E7176 : 09654-478.01)
T202 BF256 A
MW-LW-ZWISCHENKR.
MW-LW-INTERMEDIATE CIRCUIT
CIRC. INTERM. PO GO
CIRC. INTERM. OM OL
MW-LW-VORSTUFE
MW-LW-PRE STAGE
ETAGE PRELIMINAIRE PO GO
PRESTADIO OM OL
T401 BF900 A : 09654-478.25
8302-222-901
(BF961 E7176: 09654-478.01)
PEILANTENNENPLATTE
DIRECTIONAL AERIAL
C.I.ANTENNE RADIOGONIOMETRIQUE
PIASTRA ANTENNA RADIOGONOMETRICA
19352-040.00
2 X TD129 (SFD43G)
FERRITSTABANTENNE
FERRITE ROD AERIAL
ANTENNE FERRITE
ANTENNA FERRITA
19426-048.00
09622-803.01
GL8 HZ 7G120
DF-AERIAL
L200 8140-525-007 0,22 UH
R411 100K
19415-129.00
IC 201
S042 P
8305-100-003
1. MIXER
1. MELANGEUR
1. MISCELATORE
VCO
T203 BF440 (BF450)
L205 09226-237.21
L204 8140-525-007 0,22 UH
L206 8140-525-614 100 UH
F201 19202-624.97
MP101
MP201
1,5-19±4V BEI-6100
1,5-13±2V BEI-8100
MESSPUNKTE
MEASURING POINTS
ABGLEICHPUNKTE
ALIGNMENT POINTS
G
H ⑫ ⑦ ⑯ ⑬
⑧
⑰
B F
E A C D ⑭
⑮ ④ ⑨ ⑪ ⑩ ⑥ ⑤
L
X ②
IX


FM-ZF-IC
FM-IF-IC
IC-FM-FI
IC 301
TDA 1047
8305-302-047
U-KONST.
AFT
DE-TUNING
MUTE
M
F303
F304
2 X 19203-020.95
F305 19202-329.97
T305 BF441 (BF451)
3. MIXER
3. MELANGEUR
3. MISCELATORE
T205 BF440 (BF450)
T206 BF440 (BF450)
MP202
D101 D102 2 X 1N4148
L211 8140-525-777 5,6 UH
PLL
IC 101
SAA 1057
SYMO II
8305-303-057
(MOS)
TCA
TCB
JREF1
UREF2
XTAL
TEST
DLEN
CLCK
DATA
TR
UEE
F AM
F FM
OUT
IN
UCC1
UCC2
UCC3
L212 8140-525-778 5,6 UH
L101 8140-525-779 15 UH
D103 1N 4148
D104 1N 4148
T101 BC338-40
VCO
T203 BF440 (BF450)
L205 09226-237.21
L206 8140-525-614 100 UH
D203 1N4148
D204 BA243
P201 09647-020.97
L207 8140-525-067 2,7 UH
L208 8140-525-001 1,5 UH
P202 09647-020.97
P203 09647-020.97
Q203 54,05 MHZ 8382-251-597
T204 BF440 (BF450)
L209 09226-838.21
QUARZ-OSZILLATOR
CRYSTAL OSCILLATOR
OSCILLATEUR A QUARTZ
OSCILLATORE A QUARZO
IC 201
S042 P
8305-100-003
1. MIXER
1. MELANGEUR
1. MISCELATORE
F201 19202-624.97
Q201
Q202
RT
SW
8382-261-297 54,5 MHZ
1. AM-ZF
1. AM-IF
1. AM-FI
F202 19202-625.97
MP501
IC 202
S042 P
8305-100-003
2. MIXER
2. MELANGEUR
2. MISCELATORE
F501 19202-377.97
LW
MW
SW
FM
D803 AA143 W.W. BAT42
D804 AA143 W.W. BAT42
AUT. PRESEL

M — MISCHER / MIXER / MELANGEUR / MISCELATRICE

DEMODULATOR / DEMODULATOR / DEMODULATEUR / DEMODULATORE

U-KONST. — KONSTANTSPANNUNG / CONSTANT VOLTAGE / TENSION CONSTANTE / TENSIONE CONSTANTE

VERST. ALLG. / AMP. GENERAL / 2MP. ORD. / AMP. COMUNE

SCHMITTRIGGER / SCHMITT-TRIGGER / TRIGGER DE SCHMITT / CIRC. DI SCANCIO DI SCHMITT

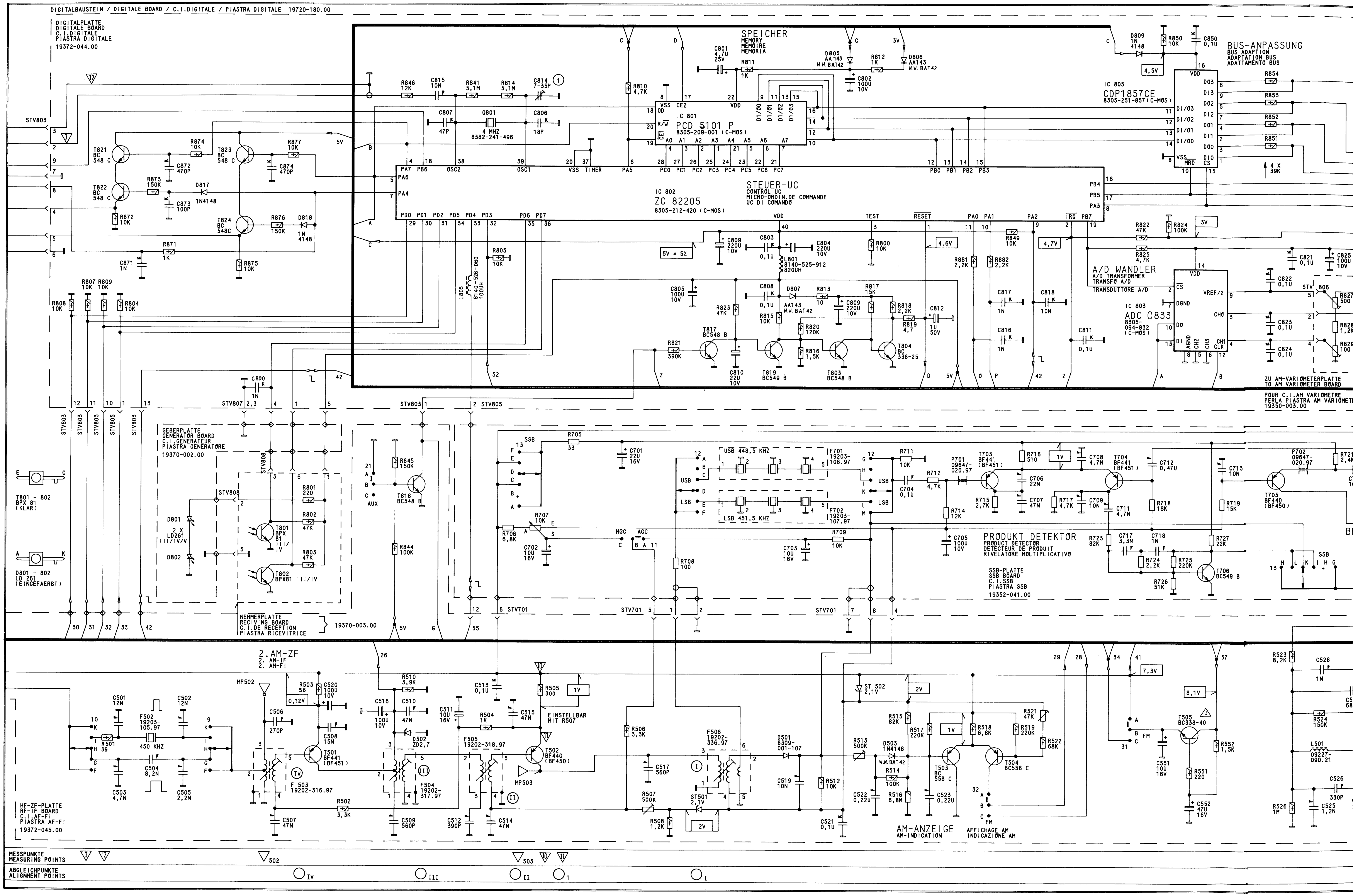
SCHWELLLWERT-SCHALTER / THRESHOLD VALUE SWITCH / COMMUTATEUR VALEUR SEUIL / COMMUTATORE DEL VALORE DI SOGLIA

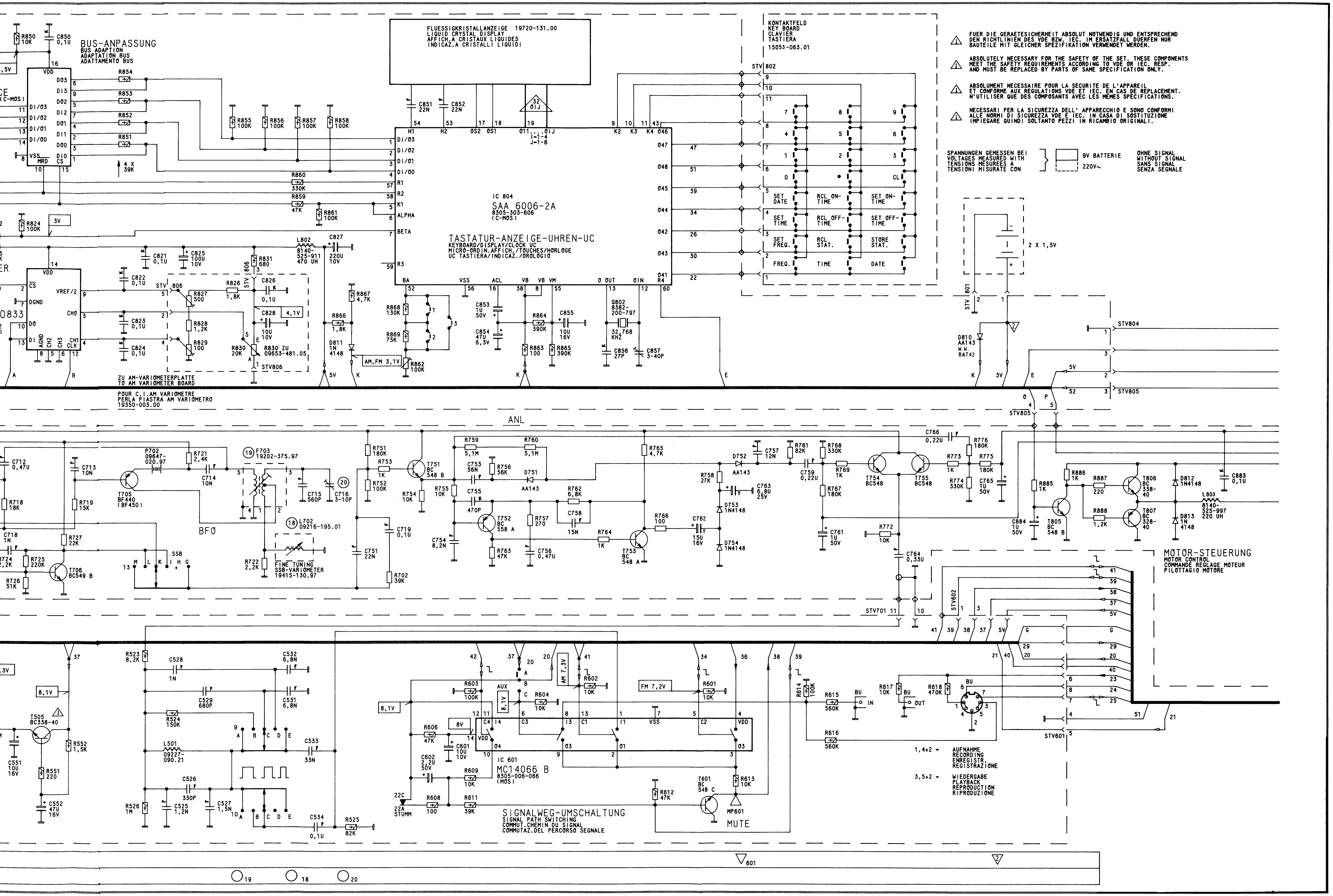
ACHTUNG!
VORSCHRIFTEN BEIM UMGANG MIT
MOS-BAUTEILEN BEACHTEN!
ATTENTION!
OBSERVE MOS COMPONENTS HANDLING
INSTRUCTIONS WHEN SERVICING!
ATTENTION!
LORS DE LA MANIPULATION DES
CIRCUITS MOS, RESPECTER LES
PESCRIPTIONS MOS!
ATTENZIONE!
OSSERVARE LE RELATIVE PRESCRIZIONI
DURANTE, LAVORI CON COMPONENTI MOS!

9.15053-8100		IC 802				
		PIN 34	PIN 32	PIN 31	PIN 30	PIN 29
		PD 5	PD 3	PD 2	PD 1	PD 0
FM		X	X	1	0	0
AM	KW	X	0 [1]	0	0	1
	MW	X	X	0	1	0
	LW	X	X	0	1	1
AM	AUT. PRESEL	1	X	0	X	X

[1] 9.15053-6100
X ..... 0 ODER 1 - PEGEL

WELLENBEREICHE: WAVEBANDS: GAMMES D'ONDES: GAMME D'ONDA:				
	LW , GO , OL	148 - 420	KHZ	
	MW , PO , OM	510 - 1620	KHZ	
	KW , SW , OC	1,6 - 26,1	MHZ	BEI 9.15053-8100
	KW , SW , OC	1,6 - 30	MHZ	BEI 9.15053-6100
	FM	87,5- 108	MHZ	
	FM-ZF , FM-IF , MF-FI	10,7	MHZ	
	1. AM-ZF , AM-IF , AM-FI	54,5	MHZ	
	2. AM-ZF , AM-IF , AM-FI	450	KHZ	


DIGITALBAUSTEIN / DIGITALE BOARD / C.I.DIGITALE / PIASTRA DIGITALE 19720-180.00
DIGITALPLATTE
DIGITALE BOARD
C.I.DIGITALE
PIASTRA DIGITALE
19372-044.00
SPEICHER
MEMORY
MEMOIRE
MEMORIA
IC 801
PCD 5101 P
8305-209-001 (C-MOS)
STEUER-UC
CONTROL UC
MICRO-ORDIN.DE COMMANDE
UC DI COMANDO
IC 802
ZC 82205
8305-212-420 (C-MOS)
Q801
4 MHZ
8382-241-496
L801
8140-525-912
820UH
L805
8140-526-060
100UH
5V ± 5%
4,6V
4,7V
4,5V
3V
BUS-ANPASSUNG
BUS ADAPTION
ADAPTATION BUS
ADATTAMENTO BUS
IC 805
CDP1857CE
8305-251-857 (C-MOS)
A/D WANDLER
A/D TRANSFORMER
TRANSFO A/D
TRANSDUTTORE A/D
IC 803
ADC 0833
8305-094-832
(C-MOS)
ZU AM-VARIOMETERPLATTE
TO AM VARIOMETER BOARD
POUR C.I.AM VARIOMETRE
PERLA PIASTRA AM VARIOMETRO
19350-003.00
T821 BC 548 C
T822 BC 548 C
T823 BC 548 C
T824 BC 548C
T817 BC548 B
T819 BC549 B
T803 BC548 B
T804 BC 338-25
D817 1N4148
D818 1N 4148
D807 AA143 W.W.BAT42
D805 AA143 W.W.BAT42
D806 AA143 W.W.BAT42
D809 1N 4148
STV803
STV805
STV807
STV808
GEBERPLATTE
GENERATOR BOARD
C.I.GENERATEUR
PIASTRA GENERATORE
19370-002.00
D801
2 X LD261 III/IV/V
D802
T801 BPX 81 III/IV
T802 BPX81 III/IV
NEHMERPLATTE
RECIVING BOARD
C.I.DE RECEPTION
PIASTRA RICEVITRICE
19370-003.00
T801 - 802
BPX 81
(KLAR)
D801 - 802
LD 261
(EINGEFAERBT)
T818 BC548 B
AUX
SSB-PLATTE
SSB BOARD
C.I.SSB
PIASTRA SSB
19352-041.00
USB 448,5 KHZ
F701 19203-106.97
LSB 451,5 KHZ
F702 19203-107.97
MGC AGC
PRODUKT DETEKTOR
PRODUCT DETECTOR
DETECTEUR DE PRODUIT
RIVELATORE MOLTIPLICATIVO
P701 09647-020.97
T703 BF441 (BF451)
T704 BF441 (BF451)
T705 BF440 (BF450)
T706 BC549 B
P702 09647-020.97
STV701
2. AM-ZF
2. AM-IF
2. AM-FI
MP502
F502 19203-105.97
450 KHZ
T501 BF441 (BF451)
F 503 19202-316.97
F504 19202-317.97
D502 ZD2,7
F505 19202-318.97
T502 BF440 (BF450)
MP503
EINSTELLBAR MIT R507
F506 19202-336.97
D501 8309-001-107
ST501 2,1V
ST 502 2,1V
D503 1N4148 W.W.BAT42
T503 BC 558 C
T504 BC558 C
T505 BC338-40
AM-ANZEIGE
AM-INDICATION
AFFICHAGE AM
INDICAZIONE AM
FM
L501 09227-090.21
HF-ZF-PLATTE
RF-IF BOARD
C.I.AF-FI
PIASTRA AF-FI
19372-045.00
0,12V
1V
2V
7,3V
8,1V
MESSPUNKTE
MEASURING POINTS
ABGLEICHPUNKTE
ALIGNMENT POINTS
502
503
IV
III
II
I


BUS-ANPASSUNG
BUS ADAPTION
ADAPTATION BUS
ADATTAMENTO BUS
R850 10K
C850 0,1U
R854
R853
R852
R851
4 X 39K
R855 100K
R856 100K
R857 100K
R858 100K
R860 330K
R859 47K
R861 100K
R824 100K
3V
FLUESSIGKRISTALLANZEIGE 19720-131.00
LIQUID CRYSTAL DISPLAY
AFFICH.A CRISTAUX LIQUIDES
INDICAZ.A CRISTALLI LIQUIDI
C851 22N
C852 22N
IC 804
SAA 6006-2A
8305-303-606
(C-MOS)
TASTATUR-ANZEIGE-UHREN-UC
KEYBOARD/DISPLAY/CLOCK UC
MICRO-ORDIN.AFFICH./TOUCHES/HORLOGE
UC TASTIERA/INDICAZ./OROLOGIO
KONTAKTFELD
KEY BOARD
CLAVIER
TASTIERA
15053-063.01
STV 802
SET DATE
RCL ON-TIME
SET ON-TIME
SET TIME
RCL OFF-TIME
SET OFF-TIME
SET FREQ.
RCL STAT.
STORE STAT.
FREQ.
TIME
DATE
CL
2 X 1,5V
STV 801
D810 AA143 W.W. BAT42
STV804
STV805
0833
C821 0,1U
C825 100U 10V
C822 0,1U
C823 0,1U
C824 0,1U
R831 680
R826 1,8K
R827 500
R828 1,2K
R829 100
R830 20K
R830 ZU 09653-481.05
C826 0,1U
C828 10U 10V
4,1V
STV806
L802 8140-525-911 470 UH
C827 220U 10V
R866 1,8K
R867 4,7K
D811 1N 4148
AM,FM 3,1V
R862 100K
R868 130K
R869 75K
C853 1U 50V
C854 47U 6,3V
R864 390K
C855 10U 16V
R863 100
R865 390K
Q802 8382-200-797
32,768 KHZ
C856 27P
C857 3-40P
ZU AM-VARIOMETERPLATTE
TO AM VARIOMETER BOARD
POUR C.I.AM VARIOMETRE
PERLA PIASTRA AM VARIOMETRO
19350-003.00
ANL
P702 09647-020.97
R721 2,4K
C712 0,47U
C713 10N
C714 10N
T705 BF440 (BF450)
F703 19202-375.97
C715 560P
C716 3-10P
BFØ
L702 09216-195.01
FINE TUNING
SSB-VARIOMETER
19415-130.97
SSB
R718 18K
R719 15K
C718 1N
R727 22K
R725 220K
R726 51K
T706 BC549 B
R722 2,2K
R751 180K
R753 1K
R752 100K
T751 BC 548 B
R754 10K
C751 22N
C719 0,1U
R702 39K
R759 5,1M
R760 5,1M
C753 56N
R756 56K
D751 AA143
R755 10K
C755 470P
T752 BC 558 A
C754 8,2N
R763 47K
R757 270
C756 0,47U
R762 6,8K
C758 15N
R764 1K
T753 BC 548 A
R765 4,7K
R766 100
C762 15U 16V
D752 AA143
C757 12N
R758 27K
C763 6,8U 25V
D753 1N4148
D754 1N4148
R761 82K
R768 330K
C759 0,22U
R769 1K
R767 180K
C761 1U 50V
R772 10K
C764 0,33U
T754 BC548
T755 BC548
C766 0,22U
R776 180K
R773 1K
R775 180K
R774 330K
C765 1U 50V
R885 1K
R886 1K
R887 220
R888 1,2K
T805 BC 548 B
T806 BC 338-40
T807 BC 328-40
C884 1U 50V
D812 1N4148
D813 1N 4148
C883 0,1U
L803 8140-525-997 220 UH
MØTOR-STEUERUNG
MOTOR CONTROL
COMMANDE REGLAGE MOTEUR
PILOTTAGIO MOTORE
STV701
STV602
R523 8,2K
C528 1N
C529 680P
C532 6,8N
C531 6,8N
R524 150K
L501 09227-090.21
C533 33N
C526 330P
C525 1,2N
C527 1,5N
R526 1M
C534 0,1U
R525 82K
8,1V
T505 BC338-40
R552 1,5K
C551 10U 16V
R551 220
C552 47U 16V
R603 100K
AUX
R604 10K
AM 7,3V
R602 10K
FM 7,2V
R601 10K
R606 47K
8V
C601 10U 10V
C602 2,2U 50V
R609 10K
R608 100
R611 39K
22C
22A STUMM
IC 601
MC14066 B
8305-006-066
(MOS)
SIGNALWEG-UMSCHALTUNG
SIGNAL PATH SWITCHING
COMMUT.CHEMIN DU SIGNAL
COMMUTAZ.DEL PERCORSO SEGNALE
R612 47K
T601 BC 548 C
R613 10K
MP601
MUTE
R614 100K
R615 560K
R616 560K
BU IN
R617 10K
BU OUT
R618 470K
BU
STV601
1,4+2 - AUFNAHME RECORDING ENREGISTR. REGISTRAZIONE
3,5+2 - WIEDERGABE PLAYBACK REPRODUCTION RIPRODUZIONE
601
19
18
20

FUER DIE GERAETESICHERHEIT ABSOLUT NOTWENDIG UND ENTSPRECHEND DEN RICHTLINIEN DES VDE BZW. IEC. IM ERSATZFALL DUERFEN NUR BAUTEILE MIT GLEICHER SPEZIFIKATION VERWENDET WERDEN.

ABSOLUTELY NECESSARY FOR THE SAFETY OF THE SET. THESE COMPONENTS MEET THE SAFETY REQUIREMENTS ACCORDING TO VDE OR IEC. RESP. AND MUST BE REPLACED BY PARTS OF SAME SPECIFICATION ONLY.

ABSOLUMENT NECESSAIRE POUR LA SECURITE DE L'APPAREIL ET CONFORME AUX REGULATIONS VDE ET IEC. EN CAS DE REPLACEMENT. N'UTILISER QUE DES COMPOSANTS AVEC LES MEMES SPECIFICATIONS.

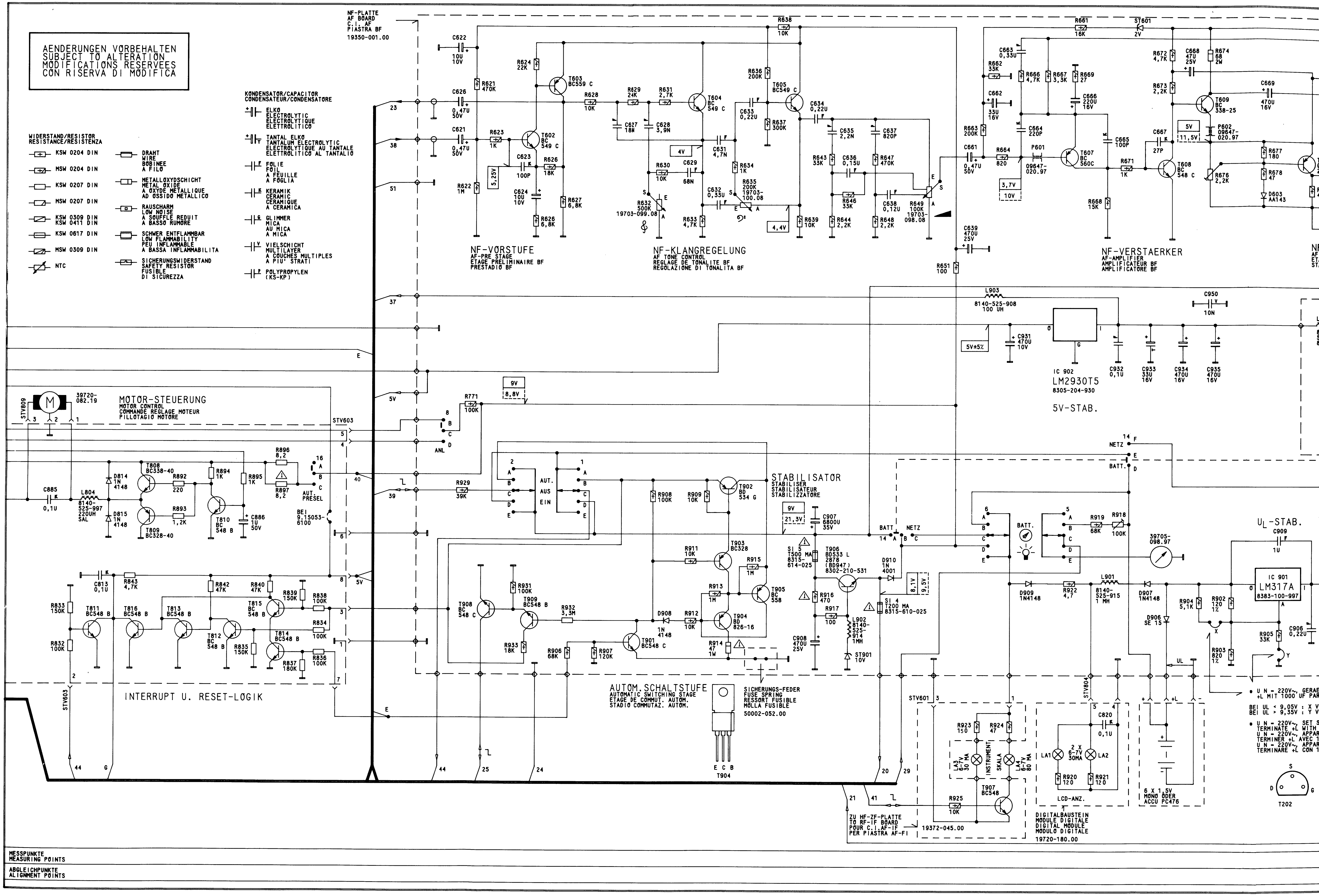
NECESSARI PER LA SICUREZZA DELL' APPARECCHIO E SONO CONFORMI ALLE NORMI DI SICUREZZA VDE E IEC. IN CASA DI SOSTITUZIONE IMPIEGARE QUINDI SOLTANTO PEZZI IN RICAMBIO ORIGINALI.

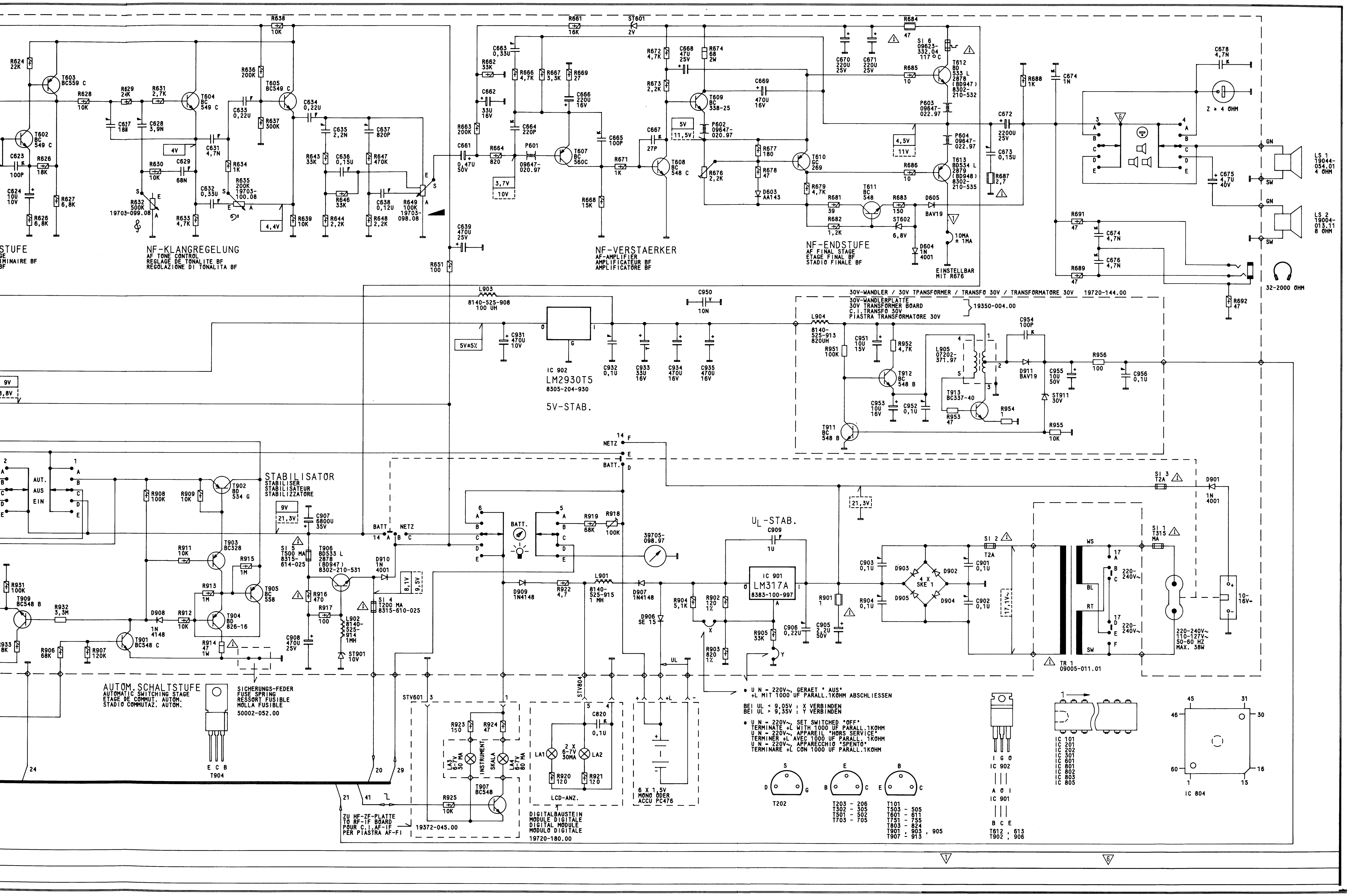
SPANNUNGEN GEMESSEN BEI
VOLTAGES MEASURED WITH
TENSIONS MESUREES A
TENSIONI MISURATE CON

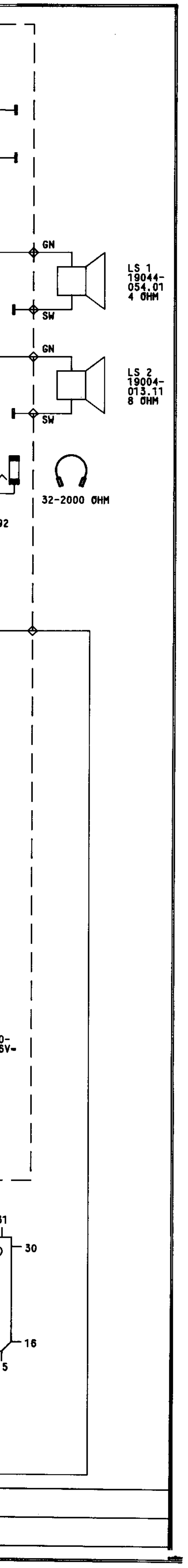
9V BATTERIE
220V~

OHNE SIGNAL
WITHOUT SIGNAL
SANS SIGNAL
SENZA SEGNALE

AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERATION
MODIFICATIONS RESERVEES
CON RISERVA DI MODIFICA


WIDERSTAND/RESISTOR
RESISTANCE/RESISTENZA
KSW 0204 DIN
MSW 0204 DIN
KSW 0207 DIN
MSW 0207 DIN
KSW 0309 DIN
KSW 0411 DIN
KSW 0617 DIN
MSW 0309 DIN
NTC
DRAHT
WIRE
BOBINEE
A FILO
METALLOXYDSCHICHT
METAL OXIDE
A OXYDE METALLIQUE
AD OSSIDO METALLICO
RAUSCHARM
LOW NOISE
A SOUFFLE REDUIT
A BASSO RUMORE
SCHWER ENTFLAMMBAR
LOW FLAMMABILITY
PEU INFLAMMABLE
A BASSA INFLAMMABILITA
SICHERUNGSWIDERSTAND
SAFETY RESISTOR
FUSIBLE
DI SICUREZZA
KONDENSATOR/CAPACITOR
CONDENSATEUR/CONDENSATORE
ELKO
ELECTROLYTIC
ELECTROLYTIQUE
ELETTROLITICO
TANTAL ELKO
TANTALUM ELECTROLYTIC
ELECTROLYTIQUE AU TANTALE
ELETTROLITICO AL TANTALIO
FOLIE
FOIL
A FEUILLE
A FOGLIA
KERAMIK
CERAMIC
CERAMIQUE
A CERAMICA
GLIMMER
MICA
AU MICA
A MICA
VIELSCHICHT
MULTILAYER
A COUCHES MULTIPLES
A PIU' STRATI
POLYPROPYLEN
(KS-KP)
NF-PLATTE
AF BOARD
C.I. AF
PIASTRA BF
19350-001.00
C622 10U 10V
R621 470K
C626 0,47U 50V
C621 0,47U 50V
R622 1M
R623 1K
5,25V
C623 100P
R624 22K
T603 BC559 C
T602 BC 549 C
R626 18K
C624 10U 10V
R625 6,8K
R627 6,8K
R628 10K
NF-VORSTUFE
AF-PRE STAGE
ETAGE PRELIMINAIRE BF
PRESTADIO BF
R629 24K
R631 2,7K
C627 18N
C628 3,9N
T604 BC 549 C
4V
R630 10K
C629 68N
C631 4,7N
C632 0,33U
R632 500K 19703-099.08
R633 4,7K
R634 1K
R635 200K 19703-100.08
4,4V
R636 200K
R638 10K
T605 BC549 C
C633 0,22U
R637 300K
R639 10K
C634 0,22U
C635 2,2N
C637 820P
R643 33K
C636 0,15U
R646 33K
R647 470K
R644 2,2K
C638 0,12U
R648 2,2K
R649 100K 19703-098.08
NF-KLANGREGELUNG
AF TONE CONTROL
REGLAGE DE TONALITE BF
REGOLAZIONE DI TONALITA BF
C661 0,47U 50V
R663 200K
R662 33K
C663 0,33U
C662 33U 16V
R664 820
C664 220P
P601 09647-020.97
3,7V
10V
R666 4,7K
R667 3,3K
R669 27
C666 220U 16V
T607 BC 560C
C665 100P
R668 15K
R671 1K
R661 18K
ST601 2V
R672 4,7K
R673 2,2K
C668 47U 25V
R674 68 2W
C667 27P
5V
11,5V
T609 BC 338-25
P602 09647-020.97
T608 BC 548 C
R676 2,2K
R677 180
R678 47
D603 AA143
C669 470U 16V
C639 470U 25V
R651 100
NF-VERSTAERKER
AF-AMPLIFIER
AMPLIFICATEUR BF
AMPLIFICATORE BF
L903 8140-525-908 100 UH
C931 470U 10V
5V±5%
IC 902
LM2930T5
8305-204-930
5V-STAB.
C932 0,1U
C933 33U 16V
C934 470U 16V
C935 470U 16V
C950 10N
23
38
51
37
5V
39
40
E
9V
8,8V
R771 100K
ANL
39720-082.19
MOTOR-STEUERUNG
MOTOR CONTROL
COMMANDE REGLAGE MOTEUR
PILLOTAGIO MOTORE
STV809
STV603
C885 0,1U
L804 8140-525-997 220UH SAL
D814 1N 4148
D815 1N 4148
T808 BC338-40
T809 BC328-40
R892 220
R893 1,2K
R894 1K
T810 BC 548 B
R895 1K
C886 1U 50V
R896 8,2
R897 8,2
AUT. PRESEL
BEI 9.15053-6100
C813 0,1U
R843 4,7K
R833 150K
R832 100K
T811 BC548 B
T816 BC548 B
T813 BC548 B
R842 47K
T812 BC 548 B
R835 150K
R840 47K
T815 BC 548 B
R839 150K
R838 100K
T814 BC548 B
R834 100K
R837 180K
R836 100K
INTERRUPT U. RESET-LOGIK
R929 39K
AUT.
AUS
EIN
T908 BC 548 C
R931 100K
T909 BC548 B
R932 3,3M
R933 18K
R906 68K
R907 120K
T901 BC548 C
R908 100K
R909 10K
T902 BD 534 G
STABILISATOR
STABILISER
STABILISATEUR
STABILIZZATORE
9V
21,3V
C907 6800U 35V
R911 10K
T903 BC328
R915 1M
R913 1M
T905 BC 558
D908 1N 4148
R912 10K
T904 BD 826-16
R914 47 1W
AUTOM. SCHALTSTUFE
AUTOMATIC SWITCHING STAGE
ETAGE DE COMMUT. AUTOM.
STADIO COMMUTAZ. AUTOM.
E C B
T904
SICHERUNGS-FEDER
FUSE SPRING
RESSORT FUSIBLE
MOLLA FUSIBLE
50002-052.00
SI 5 T500 MA 8315-614-025
T906 BD533 L 2878 (BD947) 8302-210-531
R916 470
R917 100
L902 8140-525-914 1MH
ST901 10V
C908 470U 25V
D910 1N 4001
SI 4 T200 MA 8315-610-025
8,1V
9,5V
BATT
NETZ
14
NETZ
BATT.
BATT.
R919 68K
R918 100K
39705-098.97
D909 1N4148
R922 4,7
L901 8140-525-915 1 MH
D907 1N4148
D906 SE 15
UL-STAB.
C909 1U
IC 901
LM317A
8383-100-997
R904 5,1K
R902 120 1%
R905 33K
R903 820 1%
C906 0,22U
UL
STV601
STV804
R923 150
R924 47
LA3 6-7V 30 MA
INSTRUMENT
SKALA
LA4 6-7V 80 MA
R925 10K
T907 BC548
C820 0,1U
LA1
2 X 6-7V 30MA
LA2
R920 120
R921 120
LCD-ANZ.
6 X 1,5V MONO ODER ACCU PC476
T202
ZU HF-ZF-PLATTE
TO RF-IF BOARD
POUR C.I.AF-IF
PER PIASTRA AF-FI
19372-045.00
DIGITALBAUSTEIN
MODULE DIGITALE
DIGITAL MODULE
MODULO DIGITALE
19720-180.00
U N = 220V~, GERAE
+L MIT 1000 UF PAR
BEI UL < 9,05V : X V
BEI UL > 9,35V : Y V
U N = 220V~, SET S
TERMINATE +L WITH
U N = 220V~, APPAR
TERMINER +L AVEC 1
U N = 220V~, APPAR
TERMINARE +L CON 1
44
25
24
20
29
21
41
MESSPUNKTE
MEASURING POINTS
ABGLEICHPUNKTE
ALIGNMENT POINTS


STUFE
NF-KLANGREGELUNG
AF TONE CONTROL
REGLAGE DE TONALITE BF
REGOLAZIONE DI TONALITA BF
NF-VERSTAERKER
AF-AMPLIFIER
AMPLIFICATEUR BF
AMPLIFICATORE BF
NF-ENDSTUFE
AF FINAL STAGE
ETAGE FINAL BF
STADIO FINALE BF
EINSTELLBAR MIT R676
10MA ± 1MA
Z ≥ 4 OHM
LS 1 19044-054.01 4 OHM
LS 2 19004-013.11 8 OHM
32-2000 OHM
IC 902 LM2930T5 8305-204-930
5V-STAB.
30V-WANDLER / 30V TPANSFORMER / TRANSFO 30V / TRANSFORMATORE 30V 19720-144.00
30V-WANDLERPLATTE
30V TRANSFORMER BOARD
C.I.TRANSFO 30V
PIASTRA TRANSFORMATORE 30V
19350-004.00
STABILISATOR
STABILISER
STABILISATEUR
STABILIZZATORE
AUT.
AUS
EIN
NETZ
BATT.
UL-STAB.
IC 901 LM317A 8383-100-997
TR 1 09005-011.01
220-240V~ 110-127V~ 50-60 HZ MAX. 38W
10-16V=
AUTOM. SCHALTSTUFE
AUTOMATIC SWITCHING STAGE
ETAGE DE COMMUT. AUTOM.
STADIO COMMUTAZ. AUTOM.
SICHERUNGS-FEDER
FUSE SPRING
RESSORT FUSIBLE
MOLLA FUSIBLE
50002-052.00
E C B
T904
STV601
STV804
INSTRUMENT
SKALA
LCD-ANZ.
DIGITALBAUSTEIN
MODULE DIGITALE
DIGITAL MODULE
MODULO DIGITALE
19720-180.00
6 X 1,5V MONO ODER ACCU PC476
ZU HF-ZF-PLATTE
TO RF-IF BOARD
POUR C.I.AF-IF
PER PIASTRA AF-FI
19372-045.00
• U N = 220V~, GERAET " AUS"
+L MIT 1000 UF PARALL.1KOHM ABSCHLIESSEN
BEI UL < 9,05V : X VERBINDEN
BEI UL > 9,35V : Y VERBINDEN
• U N = 220V~, SET SWITCHED "OFF"
TERMINATE +L WITH 1000 UF PARALL.1KOHM
U N = 220V~, APPAREIL "HORS SERVICE"
TERMINER +L AVEC 1000 UF PARALL. 1KOHM
U N = 220V~, APPARECCHIO "SPENTO"
TERMINARE +L CON 1000 UF PARALL.1KOHM
T202
T203 - 206
T302 - 305
T501 - 502
T703 - 705
T101
T503 - 505
T601 - 611
T751 - 755
T803 - 824
T901 , 903 , 905
T907 - 913
I G O
IC 902
A O I
IC 901
B C E
T612 , 613
T902 , 906
IC 101
IC 201
IC 202
IC 301
IC 601
IC 801
IC 802
IC 803
IC 805
IC 804


GN
LS 1
19044-
054.01
4 OHM
SW
GN
LS 2
19004-
013.11
8 OHM
SW
32-2000 OHM
30
16
5

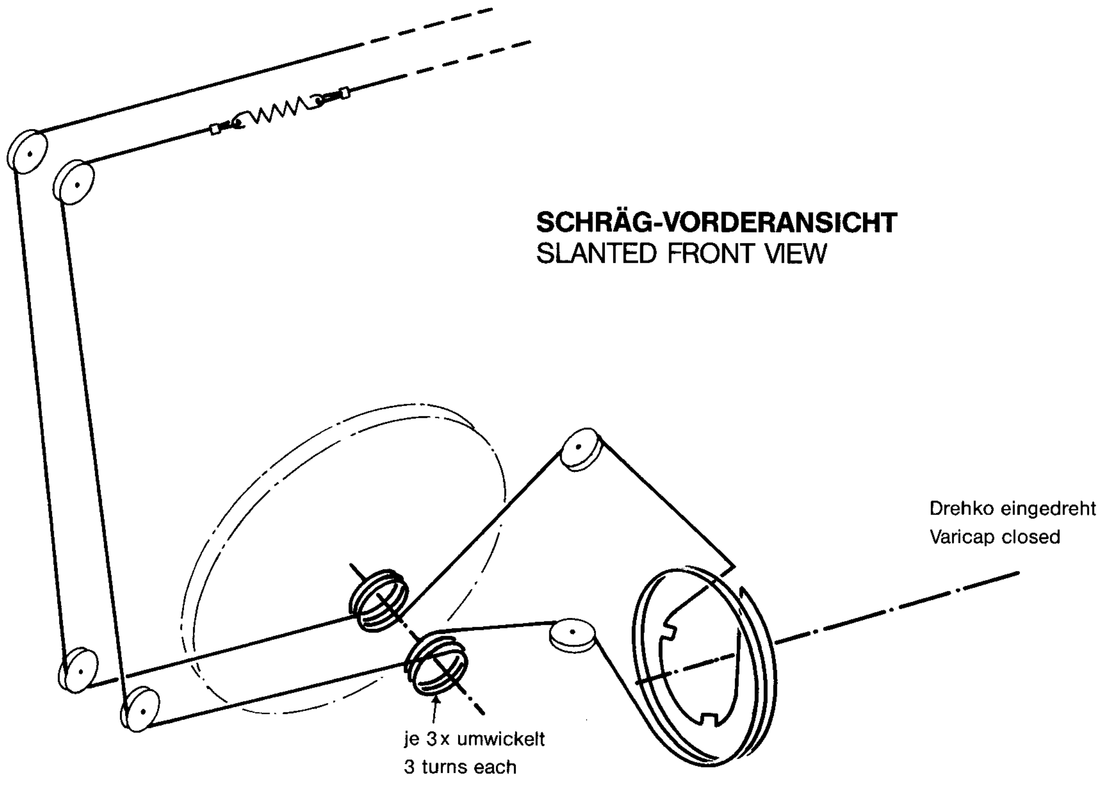
AM-FM-SEILZUG

Dehko eingedreht
Seillänge ca. 1825 mm

AM-FM-DIAL CORD

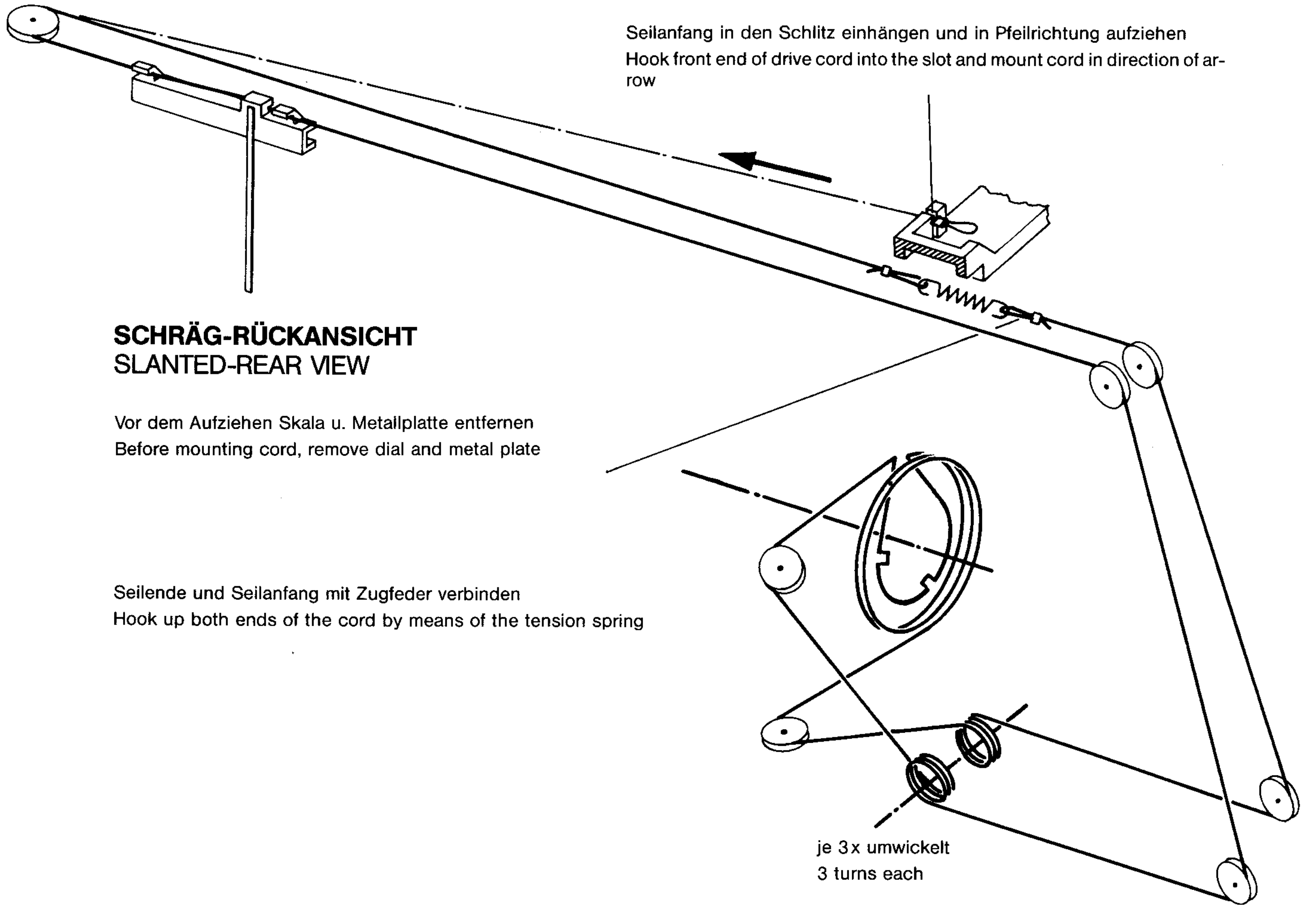
Varicap closed
Cord length approx. 1825 mm

SCHRÄG-VORDERANSICHT
SLANTED FRONT VIEW



Drehko eingedreht
Varicap closed

je 3x umwickelt
3 turns each



Seilanfang in den Schlitz einhängen und in Pfeilrichtung aufziehen
Hook front end of drive cord into the slot and mount cord in direction of arrow

SCHRÄG-RÜCKANSICHT
SLANTED-REAR VIEW

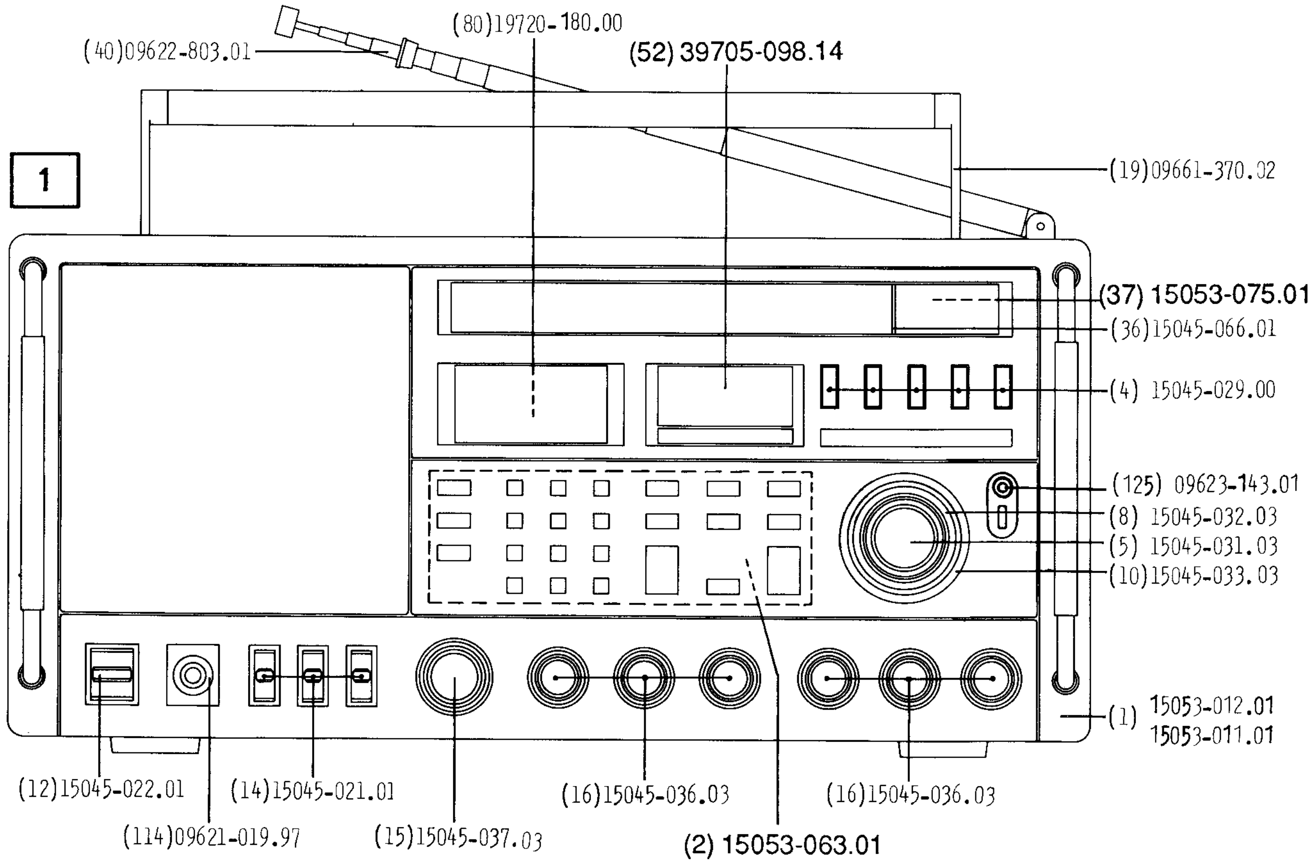
Vor dem Aufziehen Skala u. Metallplatte entfernen
Before mounting cord, remove dial and metal plate

Seilende und Seilanfang mit Zugfeder verbinden
Hook up both ends of the cord by means of the tension spring

je 3x umwickelt
3 turns each

Pos. No.	Fig. No.	Bestell-Nr./Part No.		Benennung	Description
				Gehäuse	Cabinet
1	1	15053-012.01		Gehäuse-Vorderteil (Prof.)	Front panel (Prof.)
1	1	15053-011.01		Gehäuse-Vorderteil (Int.)	Front panel (Int.)
2	1	15053-063.01		Kontaktfeld kpl.	Contact panel compl.
4	1	15045-029.00	5x	Tastenknopf	Button
5	1	15045-031.03		Schaltknopf	Switch knob
6		09619-863.00		Ringfeder	Coil spring
7		39400-212.00		Druckfeder	Compression spring
8	1	15045-032.03		Drehknopf	Rotary control knob
9		09619-864.00		Ringfeder	Coil spring
10	1	15045-033.03		Geberknopf	Oscillator knob
11		09619-865.00		Ringfeder	Coil spring
12	1	15045-022.01		Zierkappe, groß	Decorative cap, large
14	1	15045-021.01	3x	Zierkappe, klein	Decorative cap, small
15	1	15045-037.03		Drehknopf	Rotary control knob
16	1	15045-036.03	6x	Drehknopf	Rotary control knob
17	2	15045-023.00		Tastenknopf	Button
18		15053-040.01		Gehäuse-Rückteil kpl.	Back panel compl.
19	1	09661-370.02		Tragegriff kpl.	Carrying handle compl.

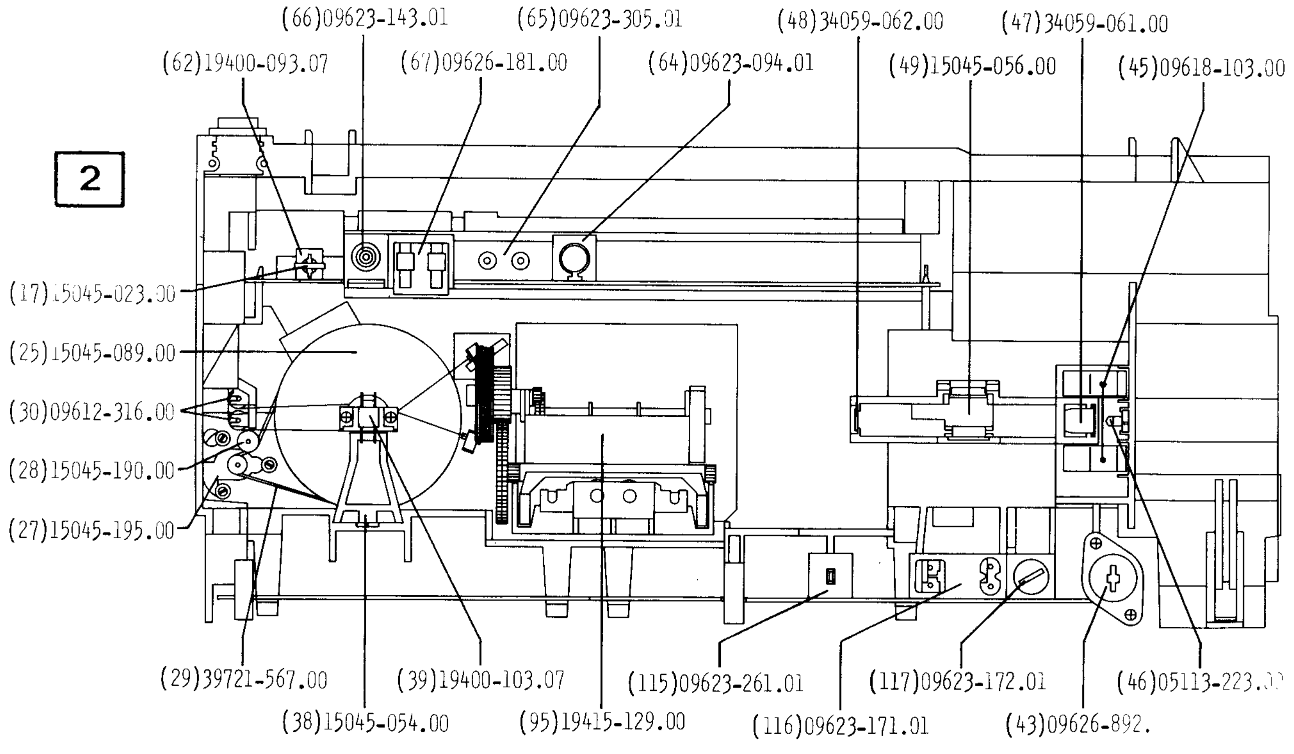
1


(40)09622-803.01
(80)19720-180.00
(52) 39705-098.14
(19)09661-370.02
(37) 15053-075.01
(36)15045-066.01
(4) 15045-029.00
(125) 09623-143.01
(8) 15045-032.03
(5) 15045-031.03
(10)15045-033.03
(1) 15053-012.01
15053-011.01
(12)15045-022.01
(14)15045-021.01
(16)15045-036.03
(16)15045-036.03
(114)09621-019.97
(15)15045-037.03
(2) 15053-063.01

Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung	Description
20		09603-754.00 2x	Achse	Spindle
21		15045-045.02	Deckel	Cover
25	2	15045-089.00	Riemenscheibe	Belt pulley
26		15045-087.00	Geberrad kpl.	Generator wheel compl.
27	2	15045-195.00	Motor kpl.	Motor compl.
28	2	15045-190.00	Riemenscheibe	Belt pulley
29	2	39721-567.00	Profilriemen	Drive belt
30	2	09612-316.00 7x	Seilrolle	Cord pulley
31		8138-007-021	Antriebsschnur TE50 P (schwarz)	Drive cord TE50 P (black)
33		8138-003-005	Polyamischnur 0,3 mm	Polyamide cord 0.3mm
34		09619-108.00	Zugfeder	Tension spring
35		34057-055.00	Zeigerführung	Pointer guide
36	1	15045-066.01	Zeiger	Pointer
37	1	15053-074.01	Scala-Druck(Prof)	Scale (Prof)
37	1	15053-075.01	Skala-Druck (Int)	Scale (Int)
38	2	15045-054.00	Schalterstütze	Switch support
39	2	19400-103.07	Fortschalttaste	Continuous switch button
40	1	09622-803.01	Teleskopantenne	Telescopic aerial
41		01470-020.00 2x	Steckfassung kpl.	Connector compl.
42		09005-011.01	Netztrafo	Mains transformer
43	2	09626-892.00	Spannungswähler	Voltage selector
45	2	09618-103.00 2x	Kontaktfeder	Contact spring
46	2	05113-223.00	Kontaktfeder	Contact spring
47	2	34059-061.00	Kontaktfeder	Contact spring
48	2	34059-062.00	Kontaktblech	Contact plate
49	2	15045-056.00	Batterie-Spange	Battery clip
50		8290-991-050	Netzkabel mit Flachstecker und Zentralgerätesteckdose	Mains lead compl. Mains lead compl. (GB)
52	1	39705-098.14	Anzeigeinstrument	Meter
53		19104-021.05	Hochtonlautsprecher	Tweeter
54		19144-115.02	Rundlautsprecher	Spherical loudspeaker
55		19750-785.00	Dichtung	Seal
			HF-ZF-Platte	RF-IF Board
60		19706-062.00	Kontaktschieber 4-fach	Contact slider 4-way
61		19706-065.00	Drehschalter	Rotary switch
62	2	19400-093.07	Fortschalttaste	Button
63		15045-185.00	Aggregat kpl.	Assembly compl.
64	2	09623-094.01	Mikrofonbuchse	Microphone socket
65	2	09623-305.01	Chinchbuchse	Phono socket
66	2	09623-143.01	Koaxialstecker	Coaxial plug
67	2	09626-181.00	Klemmleiste	Termical strip
70		19370-002.00	GEBERPLATTE KPL.	Generator board compl.
75		19370-003.00	NEHMERPLATTE KPL.	Pickup board compl.
80	1	19720-180.00	DIGITAL-BAUSTEIN.KPL.	Digital unit compl.
80.1		19720-150.00	Lichtleiter	Light spreader
80.2		09622-814.00 2x	Lampenfassung	Lamp socket
30.3		09623-308.01	IC-Fassung	IC socket
30.4		19720-149.00	Displayrahmen	Display frame
30.5		09631-351.00	Kontaktgummi 8,3mm	Contact rubber 8,3
30.6		09631-352.00	Kontaktgummi 12,6mm	Contact rubber 12,6

Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung	Description
90		19426-048.00	Ferritstabantenne kpl.	Ferrite rod aerial compl.
90.1		09648-901.01	Antennenstab	Aerial rod
95	2	19415-129.00	AM-VARIOMETER	AM variometer
			SSB-Platte	SSB Board
105		19706-067.00	Drehschalter	Rotary switch
106		19415-130.00	SSB-Variometer	SSB variometer
			NF-Platte	AF Board
110		19706-045.00	Kippschalter (ANL)	ANL switch
111		19706-046.00	Kippschalter (Netz)	Mains switch
112		19706-046.00	Kippschalter(Lautspr.)	Loudspeaker switch
113		19706-047.00	Kippschalter(Batt.)	Battery switch
114	1	09621-019.97	Stereo-Koaxialbuchse	Headphone socket
115	2	09623-261.01	Lautsprecherbuchse	Loudspeaker socket
116	2	09623-171.01	Doppeleinbaustecker	Double connector
117	2	09623-172.01	Spannungswähler	Voltage selector
118		09621-113.02 4x	Sicherungshalter	Fuse contact
119		15035-116.00	Distanzstück	Spacing piece
			Peilantennenplatte	DF Antenna board
125		09623-143.01	Koaxialstecker	Coaxial plug
126		19706-043.00	Schiebeschalter BC-DF	Slide switch BC-DF

2

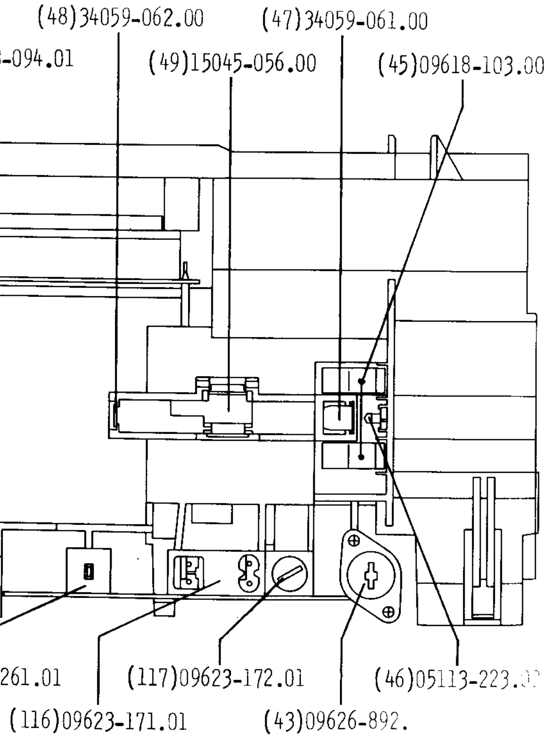


Pos.	Fig.	Bestell-
		19720-13
		19720-14
		8316-216
P 201		09647-02
P 202		09647-02
P 203		09647-02
P 301		09647-02
P 302		09647-02
P 601		09647-02
P 602		09647-02
P 603		09647-02
P 604		09647-02
P 701		09647-02
P 702		09647-02
~		
F 201		19202-62
F 202		19202-62
F 301		07202-00
F 302		19203-02
F 303		19203-02
F 304		19203-02
F 305		19202-32
F 501		19202-37
F 502		19203-10
F 503		19202-31
F 504		19202-31
F 505		19202-31
F 506		19202-33
F 701		19203-10
F 702		19203-10
F 703		19202-37
L 101		8140-525
L 200		8140-525
L 204		8140-525
L 205		09226-23
L 206		8140-525
L 207		8140-525
L 208		8140-525
L 209		09226-23
L 211		8140-525
L 212		8140-525
L 301		8140-525
L 302		09238-32
L 303		09238-33
L 304		09238-33
L 305		09226-23
L 306		09218-19

MOS = Vorschriften b

MOS = observe M

	Description
nne kpl.	Ferrite rod aerial compl.
	Aerial rod
	AM variometer
	SSB Board
	Rotary switch
	SSB variometer
	AF Board
ANL)	ANL switch
letz)	Mains switch
autspr.)	Loudspeaker switch
att.)	Battery switch
ouchse	Headphone socket
chse	Loudspeaker socket
ecker	Double connector
r	Voltage selector
er	Fuse contact
	Spacing piece
tte	DF Antenna board
	Coaxial plug
BC-DF	Slide switch BC-DF



Pos.	Fig.	Bestell-Nr./Part No.	Benennung	Description
			Elektrische Teile	Electrical Parts
		19720-131.00	Flüssigkristallanzeige	Liquid crystal display
		19720-144.00	30 V Wandler	30 V converter
		8316-216-001	Glimmlampe	Neon lamp
P 201		09647-020.97		
P 202		09647-020.97		
P 203		09647-020.97		
P 301		09647-022.97		
P 302		09647-020.97		
P 601		09647-020.97		
P 602		09647-020.97		
P 603		09647-022.97		
P 604		09647-022.97		
P 701		09647-020.97		
P 702		09647-020.97		
F 201		19202-624.97		
F 202		19202-625.97		
F 301		07202-002.97		
F 302		19203-020.95		
F 303		19203-020.95		
F 304		19203-020.95		
F 305		19202-329.97		
F 501		19202-377.97		
F 502		19203-105.97		
F 503		19202-316.97		
F 504		19202-317.97		
F 505		19202-318.97		
F 506		19202-336.97		
F 701		19203-106.97		
F 702		19203-107.97		
F 703		19202-375.97		
L 101		8140-525-779		
L 200		8140-525-007		
L 204		8140-525-007		
L 205		09226-237.21		
L 206		8140-525-614		
L 207		8140-525-067		
L 208		8140-525-001		
L 209		09226-238.21		
L 211		8140-525-777		
L 212		8140-525-778		
L 301		8140-525-007		
L 302		09238-329.01		
L 303		09238-330.01		
L 304		09238-331.01		
L 305		09226-234.01		
L 306		09218-191.97		

MOS = Vorschriften beachten

MOS = observe MOS instr.

Pos.	Fig.	Bestell-Nr./Part No.	Benennung Description
L 805		8140-526-060	
L 405		8140-525-614	
L 501		09227-090.21	
L 801		8140-525-912	
L 802		8140-525-911	
L 803		8140-525-997	
L 804		8140-525-997	
L 901		8140-525-915	
L 902		8140-525-914	
L 903		8140-525-908	
Q 201/202		8382-261-297	
Q 203		8382-251-597	
Q 801		8382-241-496	
Q 802		8382-200-797	
IC 101		8305-303-057	SAA 1057 (MOS)
IC 201		8305-100-003	S 042 P
IC 202		8305-100-003	S 042 P
IC 301		8305-302-047	TDA 1047
IC 601		8305-006-066	HEF 4066 BP
IC 801		8305-209-001	PCD 5101 P (MOS)
IC 802		8305-212-420	ZC 82205 (MOS)
IC 803		8305-094-832	ADC 0833 (MOS)
IC 804		8305-303-606	SAA 6006-2 A (MOS)
IC 805		8305-251-857	CDP 1857 CE (MOS)
IC 901		8383-100-997	LM 317 A
IC 902		8305-204-930	LM 2930 T 5
T 101		8302-200-256	BC 338/40
T 203		8302-222-040	BF 440
T 204		8302-222-040	BF 440
T 205		8302-222-040	BF 440
T 206		8302-222-040	BF 440
T 301		8302-220-910	BF 910
T 302		8302-220-441	BF 441
T 303		8302-222-040	BF 440
T 304		8302-220-441	BF 441
T 305		8302-220-441	BF 441
T 401		8302-222-901	BF 961
T 501		8302-220-441	BF 441
T 502		8302-222-040	BF 440
T 503		8302-202-560	BC 558 C
T 504		8302-202-560	BC 558 C
T 505		8302-200-256	BC 338/40
T 601		8302-200-548	BC 548 C
T 602		8302-200-551	BC 549 C
T 603		8302-202-561	BC 559 C

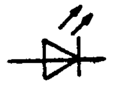
Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
T 604		8302-200-551	BC 549 C
T 605		8302-200-551	BC 549 C
T 607		8302-202-567	BC 560 C
T 608		8302-200-548	BC 548 C
T 609		8302-200-169	BC 338-25
T 610		8302-400-108	GC 269
T 611		8302-202-538	BC 548
T 612		8302-210-532	BD 533 L
T 613		8302-210-535	BD 534 L
T 751		8302-202-543	BC 548 B
T 703		8302-220-441	BF 441
T 704		8302-220-441	BF 441
T 705		8302-222-040	BF 440
T 706		8302-200-550	BC 549 B
T 752		8302-200-555	BC 558 A
T 753		8302-200-589	BC 548 A
T 754		8302-202-538	BC 548
T 755		8302-202-538	BC 548
T 801		8302-293-079	BPX 81 III/IV
T 802		8302-293-079	BPX 81 III/IV
T 803		8302-202-543	BC 548 B
T 804		8302-200-169	BC 338-25
T 805		8302-202-543	BC 548 B
T 806		8302-200-171	BC 338-40
T 807		8302-200-176	BC 328-40
T 808		8302-200-171	BC 338-40
T 809		8302-200-176	BC 328-40
T 810		8302-202-543	BC 548 B
T 811		8302-202-543	BC 548 B
T 812		8302-202-543	BC 548 B
T 813		8302-202-543	BC 548 B
T 814		8302-202-543	BC 548 B
T 815		8302-202-543	BC 548 B
T 816		8302-202-543	BC 548 B
T 817		8302-202-543	BC 548 B
T 818		8302-202-543	BC 548 B
T 819		8302-202-543	BC 548 B
T 821		8302-200-548	BC 548 C
T 822		8302-200-548	BC 548 C
T 823		8302-200-548	BC 548 C
T 824		8302-200-548	BC 548 C
T 901		8302-200-548	BC 548 C
T 902		8302-212-534	BD 534 G
T 903		8302-200-070	BC 328
T 904		8302-210-836	BD 826-16
T 905		8302-202-558	BC 558
T 906		8302-210-532	BD 533 L
T 907		8302-202-538	BC 548
T 908		8302-200-548	BC 548 C
T 909		8302-200-548	BC 548 C

Pos. No.	Fig. No.	Bestell-Nr
D 101		8309-215-
D 102		8309-215-
D 103		8309-215-
D 104		8309-215-
D 201		8309-510-
D 202		8309-510-
D 203		8309-215-
D 204		8309-201-
D 301		8309-510-
D 302		8309-510-
D 303		8309-510-
D 304		8309-510-
D 305		8309-215-
D 401		8309-214-
D 402		8309-214-
D 501		8309-001
D 502		8309-721-
D 503		8309-215-
D 603		8309-001-
D 604		8309-215-
D 605		8309-200-
D 751		8309-001-
D 752		8309-001-
D 753		8309-215-
D 754		8309-215-
D 803		8309-198-
D 804		8309-198-
D 805		8309-198-
D 806		8309-198-
D 807		8309-198-
D 809		8309-215-
D 810		8309-198-
D 811		8309-215-
D 812		8309-215-
D 813		8309-215-
D 814		8309-215-
D 815		8309-215-
D 817		8309-215-
D 818		8309-215-
D 901		8309-215-
D 902		8309-210-
D 903		8309-210-
D 904		8309-210-
D 905		8309-210-
D 906		8309-215-
D 907		8309-215-
D 908		8309-215-
D 909		8309-215-
D 910		8309-215-
ST 301		8309-680-
ST 401		8309-701-
ST 501		8309-680-
ST 502		8309-680-
ST 601		8309-680-
ST 602		8309-720-
ST 901		8309-707-

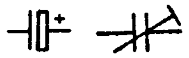
nennung scription
1057 (MOS)
42 P
42 P
1047
4066 BP
5101 P (MOS)
82205 (MOS)
0833 (MOS)
6006-2 A (MOS)
1857 CE (MOS)
317 A
2930 T 5
338/40
440
440
440
440
910
441
440
441
441
961
441
440
558 C
558 C
338/40
548 C
549 C
559 C

Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
T 604		8302-200-551	BC 549 C
T 605		8302-200-551	BC 549 C
T 607		8302-202-567	BC 560 C
T 608		8302-200-548	BC 548 C
T 609		8302-200-169	BC 338-25
T 610		8302-400-108	GC 269
T 611		8302-202-538	BC 548
T 612		8302-210-532	BD 533 L
T 613		8302-210-535	BD 534 L
T 751		8302-202-543	BC 548 B
T 703		8302-220-441	BF 441
T 704		8302-220-441	BF 441
T 705		8302-222-040	BF 440
T 706		8302-200-550	BC 549 B
T 752		8302-200-555	BC 558 A
T 753		8302-200-589	BC 548 A
T 754		8302-202-538	BC 548
T 755		8302-202-538	BC 548
T 801		8302-293-079	BPX 81 III/IV
T 802		8302-293-079	BPX 81 III/IV
T 803		8302-202-543	BC 548 B
T 804		8302-200-169	BC 338-25
T 805		8302-202-543	BC 548 B
T 806		8302-200-171	BC 338-40
T 807		8302-200-176	BC 328-40
T 808		8302-200-171	BC 338-40
T 809		8302-200-176	BC 328-40
T 810		8302-202-543	BC 548 B
T 811		8302-202-543	BC 548 B
T 812		8302-202-543	BC 548 B
T 813		8302-202-543	BC 548 B
T 814		8302-202-543	BC 548 B
T 815		8302-202-543	BC 548 B
T 816		8302-202-543	BC 548 B
T 817		8302-202-543	BC 548 B
T 818		8302-202-543	BC 548 B
T 819		8302-202-543	BC 548 B
T 821		8302-200-548	BC 548 C
T 822		8302-200-548	BC 548 C
T 823		8302-200-548	BC 548 C
T 824		8302-200-548	BC 548 C
T 901		8302-200-548	BC 548 C
T 902		8302-212-534	BD 534 G
T 903		8302-200-070	BC 328
T 904		8302-210-836	BD 826-16
T 905		8302-202-558	BC 558
T 906		8302-210-532	BD 533 L
T 907		8302-202-538	BC 548
T 908		8302-200-548	BC 548 C
T 909		8302-200-548	BC 548 C

Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
D 101		8309-215-050	1N 4148
D 102		8309-215-050	1N 4148
D 103		8309-215-050	1N 4148
D 104		8309-215-050	1N 4148
D 201		8309-510-608	BB 609 B
D 202		8309-510-608	BB 609 B
D 203		8309-215-050	1N 4148
D 204		8309-201-013	BA 243
D 301		8309-510-197	BB 204 GR
D 302		8309-510-197	BB 204 GR
D 303		8309-510-197	BB 204 GR
D 304		8309-510-198	BB 204 BL
D 305		8309-215-050	1N 4148
D 401		8309-214-114	TD 129
D 402		8309-214-114	TD 129
D 501		8309-001-107	1 N 60
D 502		8309-721-015	ZD 276
D 503		8309-215-050	1N 4148
D 603		8309-001-017	AA 143
D 604		8309-215-021	1N 4001
D 605		8309-200-018	BAV 19
D 751		8309-001-017	AA 143
D 752		8309-001-017	AA 143
D 753		8309-215-050	1N 4148
D 754		8309-215-050	1N 4148
D 803		8309-198-042	BAT 42
D 804		8309-198-042	BAT 42
D 805		8309-198-042	BAT 42
D 806		8309-198-042	BAT 42
D 807		8309-198-042	BAT 42
D 809		8309-215-050	1 N 4148
D 810		8309-198-042	BAT 42
D 811		8309-215-050	1N 4148
D 812		8309-215-050	1N 4148
D 813		8309-215-050	1N 4148
D 814		8309-215-050	1N 4148
D 815		8309-215-050	1N 4148
D 817		8309-215-050	1N 4148
D 818		8309-215-050	1N 4148
D 901		8309-215-021	1N 4001
D 902		8309-210-125	SKE 1-02
D 903		8309-210-125	SKE 1-02
D 904		8309-210-125	SKE 1-02
D 905		8309-210-125	SKE 1-02
D 906		8309-215-115	SE 15
D 907		8309-215-050	1N 4148
D 908		8309-215-050	1N 4148
D 909		8309-215-050	1N 4148
D 910		8309-215-021	1N 4001
ST 301		8309-680-512	BZV 46/62/V0
ST 401		8309-701-081	BZX 75/C1/V4
ST 501		8309-680-512	BZV 46/C2/V0
ST 502		8309-680-512	BZV 46/C2/V0
ST 601		8309-680-512	BZV 46/C2/V0
ST 602		8309-720-068	ZD 6,8 C
ST 901		8309-707-020	ZPD 10



Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
D 801		8309-909-258	LD 261 III/IV
D 802		8309-909-258	LD 261 III/IV

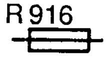


Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
C 278		19799-306.97	7/35 pF
C 303		19799-303.94	3,5/13 pF
C 307		19799-303.97	3,5/13pF
C 313		19799-303.97	3,5/13pF
C 318		19799-301.91	2/6pF
C 403		19799-304.97	4,5/20pF
C 405		19799-306.97	7/35pF
C 672		8415-169-150	2200µF/25V
C 716		19799-422.91	3/10pF
C 814		19799-316.91	7/35pF
C 857		19799-335.15	10/40pF
C 907		8446-796-115	6800µF/35 V

Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
R 258		8790-909-105	50 Ω
R 359		8790-909-065	100 KΩ
R 507		8790-909-004	500 kΩ
R 513		8790-909-004	500 KΩ
R 521		8790-909-059	47 KΩ
R 632		19703-099.08	500 KΩ
R 635		19703-100.08	200 KΩ
R 649		19703-098.08	100 KΩ
R 674		8705-269-245	68 Ω
R 676		8790-209-138	2,2 KΩ
R 679		8765-097-017	4,7 Ω

Bedienungsanleitung	Operating instruct
15053-941.01	15053-941.01

Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
R 684		8766-701-041	47 Ω
R 685		8765-097-025	10 Ω
R 686		8765-097-025	10 Ω
R 687		8700-229-011	2,7 Ω
R 707		19703-110.08	10 KΩ
R 713		8790-209-005	10 KΩ
R 819		8765-097-017	4,7 Ω
R 862		8790-009-024	100 KΩ
R 896		8700-009-077	8,2 Ω
R 897		8700-009-077	8,2 Ω
R 901		8700-229-001	1 Ω
R 914		15045-093.00	47 Ω
R 918		8790-209-009	100 KΩ
R 922		8765-097-017	4,7 Ω
R 916		8765-299-065	470 Ω



Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
Si 1		8315-612-002	315 mA
Si 2		8315-620-003	2 A
Si 3		8315-620-003	2 A
Si 4		8315-610-025	200 mA
Si 5		8315-614-025	500 mA
Si 6		09623-332.04	

Pos. No.	Fig. No.	Bestell-Nr./Part No.	Benennung Description
LA 1		8316-113-102	6/7V/30 mA
LA 2		8316-113-102	6/7V/30 mA
LA 3		8316-113-102	6/7V/30 mA
LA 4		8316-453-003	6/7V/80 mA